

# SEQUENCE LISTING

<110> Young, Paul  
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Ebner, Reinhard  
Carter, Kenneth

<120> Cancer Gene Determination and Therapeutic Screening Using  
Signature Gene Sets

<130> 689290-64

<150> U.S. 60/209,473

<151> 2000-06-05

<150> U.S. 60/209,531

<151> 2000-06-05

<150> U.S. 60/236,891

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<150> U.S. 60/236,842

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<150> U.S. 60/244,867

<151> 2000-11-01

<150> U.S. 60/245,084

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<160> 1067

<170> PatentIn version 3.0

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ctgaagtact gaaactgtgg cccatgtgaa aaagaggtgc aagtgccaaa gattcatgca 300  
gagcctgctg gaacagaggg tgggtggcggc gggttagtcc acacttacac accagcaggt 360  
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449

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tataataaat attttttcag aataaaatat ggaccctttg tgtttactaa tagataaagc 240  
cagatagtaa ttttttggtt ttaaggccac aaaatatggc ctttggttaa gaacactaaa 300  
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tctataaaga	ttattgagtt	gtaaacataa	gatattctatt	caaaagagac	cactgaaatg	360
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<400> 26

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 aaaatatata tatatatatta tatatatata tatatgtcaa tgtcagctct attctaaaac 240  
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 aacttcaacc tttggaatac tgtaatttta catccctttg atgcacagtc cagtatacta 120  
 ttttattaca gatcattcta tagggactac agacatgaac tagaggaaat gtgcacagtc 180  
 aaaatccaga atatcagctc tgggagtgtg cactgttaga ggatgaagca catcctttgc 240  
 catttcaaact actgtgccag gtggagga 268

<210> 30  
 <211> 241  
 <212> DNA  
 <213> Homo sapiens

<400> 30  
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 tatgtctaca caaagcttag aagcacttta tttgggagca atcagtattt ttgtcaaac 120  
 ttttgacag gtctttattt gtgttttgga aggttcaaca cgaattgtgc aaaatctctg 180  
 gatataattag tttagcgata tggttgttga agaaaataat atgttttaag cattcacaac 240  
 g 241



<210> 31  
 <211> 361  
 <212> DNA  
 <213> Homo sapiens

<400> 31  
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 aaaaagtga gaatcttgaa attcattttt ttcagtagaa taaaacaata agcagcatga 120  
 aaacgtaaag tgctacataa aagccccaca ttacataaat ttgaaaagt ttattggctt 180  
 aaacagttac aggtgaaaca gattacgtat tttttttcaa gcatgctatt ttaattacct 240  
 tgatactca tcatgtgcta tgttgggtcaa ataaaatgtc atgagttatc tagatctgag 300  
 gattaaagag gagtcctcag cctttacttg ccagaatata catccagttt tagctgtatg 360  
 c 361

<210> 32  
 <211> 363  
 <212> DNA  
 <213> Homo sapiens

<400> 32  
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 aacttaagtt ttgaaaatta agatgcaggt agtgcttctg aactaatgcc cacagctcca 180  
 aggaagacat gtcctattta gttattcaaa tacaagttga gggcattgtg attaaagcaa 240  
 caatatattt gttagaactt tgtttttaaa ttactgttcc ttgacattac ttataaagag 300  
 tctctaactt tcgatttcta aaactatgta atacaaaagt atagtttccc catttgataa 360  
 aag 363

<210> 33  
 <211> 320  
 <212> DNA  
 <213> Homo sapiens

<400> 33  
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 ttgattgcaa atttagatca catacaaatg agagtctgac attcaactgt tttcctatat 120  
 tccaaagtaa acaattcctt tcaacactca agacttaaac aggtattcct agaggggtat 180  
 atgaattgct atcagaagct gttggctaac aagccagtaa tttggttcct tcaccagaac 240  
 acagttccag ataagcatct ttgcactatt tctcaagtat gaatcccat gtgggggggaa 300  
 aacggatata ctttcaatag 320

<210> 34  
 <211> 299  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 34  
aatagttcca ttcattaagt cttttcttct tgctctgctt ggtaaaaggt gaaaacatgg 60  
catcaaaaca cagcccagag aaagtcaatt cctgtatttc taagacagta ggatccaggc 120  
ttatttggaa gataaaatat ctctggaaga acagatagtg ttaatggatt gantcatttt 180  
cctcaaaaag atataacccc cagaacctca gaacgtgacc ttatttggaa atagagtcac 240  
aacatatgta attagttaaa attagtcacat attggagtag ggtggacact aatccagca 299

<210> 35  
<211> 515  
<212> DNA  
<213> Homo sapiens

<400> 35  
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ccaagttgct gtaggtgctg cccgcattaa cagcagggac aaaagcttcc tatgcgcgctt 120  
tcagcaggaa tactctctcc actccaggta cttctttgtt ttggattttt ttggcatgat 180  
ttccttccca tgtaaagaaa gccaaacttct tcaagacaca ggtcattcag ctttagtggt 240  
ggcctccagg ttctccttgg gccgtgcaga aggccaggtc ccgcacagtg aggcctcct 300  
ttgtcctcca ctgaaagctt ttcactgttc ggtctgcaaa gaaagagggt cgctgcccc 360  
tgctccactc gccagggtgg aagtgggtgga gggctgggaa agggctttct tcacagggca 420  
gtgctctcgg tatcattgtc tatatccagc aggatgcggc caggcacgtc tttgctggct 480  
gagtctgagt gcatttcagg aaagatgctg cgatg 515

<210> 36  
<211> 350  
<212> DNA  
<213> Homo sapiens

<400> 36  
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ctgggggacg gggacagaat accgcaaaga ataccgcaat gggacggcc ttgcatagac 120  
accgagggcg gctagcggcg cggcgggaag aggagaggga tggagaaaga acttgggaga 180  
ggaaggtggc agcagcgcct ccatgggcac tgccgctgtg tgacgaaggc cacagcggcc 240  
ctccccgctt cggggtacag ggtgtccact ccacacagca caggagagg ggctggggca 300  
caactgactg ggagaagtgg gtagaggggc cctgaccaag gcacacaaat 350

<210> 37  
<211> 344  
<212> DNA  
<213> Homo sapiens

<400> 37  
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tttctatttc ttacttttat ttgtgcctt gaaggacttg tgaatgtata gaataattat 120  
tttttcttac tgcttcctct ttgcaaccca acctccacca agtcaatcgt gaaggtagga 180  
agaaagctgt atttctgtta cttttaaaaa tgataacgag aagaaattaa aacaatggct 240  
taagagaaaag aggatgtaag gagtacaaag caaaacttaa caaagagtta gtaaaggaac 300  
ttgcattgac aattcactca gccatgttaa ttttatcatt aata 344

<210> 38  
 <211> 543  
 <212> DNA  
 <213> Homo sapiens

<400> 38  
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 aagtacagtt ctagtgacca caattatgaa gctctgctcg tactaaaaat agcagatata 120  
 aagttggctg ccatgcctta cacacactaa gacacacaca cacacacaca cacacacaca 180  
 cacacaaggt tttgcatact cttacatgca aacagtacta tgctattata ggaaatgtac 240  
 tttcctttta ttaaaaaatac aattacacac aattagtctg ggttttgtta agctaccact 300  
 gatttagata aacctgagaa agctcaaaat atcaagtaac actgtttcca tactgctcat 360  
 tcaatggcac tatcactcaa aaagaaatct agttcaatca tctatattaa aatcacagat 420  
 aatataaaaa taaacatttt ttgcaatagc actaaaacat actataattc aaattcacia 480  
 attttgatat gtaacatata ttcaccttca tattaatttg tgattatgtg tataatacca 540  
 tgt 543

<210> 39  
 <211> 186  
 <212> DNA  
 <213> Homo sapiens

<400> 39  
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 ttacacgagc cgcggtggcc tgggtggtggc acgtgggggg cgccccgcgc gggcggtcac 120  
 agcggtcca ggtcctcgtc cccgcacgca tactcgtaca ggtccacggc gccacggt 180  
 gagggc 186

<210> 40  
 <211> 413  
 <212> DNA  
 <213> Homo sapiens

<400> 40  
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 gtccccgcag gccaccacc ctacgcagc cccagccctc cagcctctgt ccgggtgtca 120  
 gggaagcctt tcttggggtc actcagccgt ctggggactg gacgtgacag acatacgtgg 180  
 gttaaagccg ctacacagaa gactggaggt gcaggaagt catccgcctt gagcctggat 240  
 gtgggagccg tgtccggggg ccttcctgg ggctgtgcac gccagggca cagggtggga 300  
 agcctgagca ggccagggtta gcagcccaga caccaggat ggaatattgc agcctcttgc 360  
 cccacagaca cccaagctca cacaattgat attggtggtg attggcgcag gaa 413

<210> 41  
 <211> 365  
 <212> DNA  
 <213> Homo sapiens

<400> 41  
 ttttgagaga aaaggaaaaa ctttagttaa aatctttaca ataaaaaat tatgactata 60  
 aatctcttta gttaaataatg tacacattac atggtatttg tataaagaat ggaaatggat 120

aaagtttttc aggcaaatct aatgcacaaa tacaccatct tttagagtat aatgtcagtt 180  
 tatcattcgt taacagctgt gttagacagt ggctctgctt tgtgcaaaac gtgataaaca 240  
 aaattaggaa aaattctgca aaattattta gttccccaag gaaattacta aaatagaaaa 300  
 tggcaaaaga aaaaaagggt gcacactgaa gcttgattgt atactcaggc tacaatgacc 360  
 agcac 365

<210> 42  
 <211> 489  
 <212> DNA  
 <213> Homo sapiens

<400> 42  
 tgaattgttt acaaagtgtt attaaatgtc agtaattttt acaaagcaaa tattaatagc 60  
 aagaggcaaa tgttttgcaa aatatgtaca aaagtaaaaa gctgtaatga actagcaact 120  
 cattttataa aatcaaacca ttctttccac ttttagacct cttttagaaa taattttattg 180  
 cccatcctga actaaagcac tgacaaaaaa atttacaaca attatcagat aatgtgctta 240  
 gttcctggaa agttataaaa agatatatgt aaaaaaaaaa tcctaagcca caaatatttt 300  
 atagagctaa tacgagtcac gttttgttag gtacagtatc tacgggggta ttacaaaata 360  
 tactttttta taaggcttct tgtggtaaat gagctctcac cagagtagag tagtttagaa 420  
 aagccatttc aaacgttttg cgattctgcc ttcaagtaag aggtaaaagg taaatggcat 480  
 agtttggtg 489

<210> 43  
 <211> 321  
 <212> DNA  
 <213> Homo sapiens

<400> 43  
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 atttgctgac ttcagcaaaag aatcaatgat gagcttagtt tgcaagaacc ggttccatca 120  
 catggaacgg gaacgtatgt taagctctag cagccacctt ctgtcaaaac tgtttgtaaa 180  
 gcaattacca taatcaggtt atgaggtccc ttggttgggg gaaaaagtat tatcaagact 240  
 tggcacagca catgaaaagc aacatgttaa gtttctaggt tttaagcaaa catctgacta 300  
 tgctattttc aactacatca t 321

<210> 44  
 <211> 363  
 <212> DNA  
 <213> Homo sapiens

<400> 44  
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 ctactcaaaa gcaaatagtt gtcaagaatg tggtttacia gacagatctt acagataata 120  
 cagactatat tatgatttat ctgtttgaaa acagaaagta gtgtattata ctgaattctg 180  
 gtataagggt cgcaggaaac tttacttaca atcctttatt ttcataaggt aaacaccaa 240  
 gtatttctca catatattac caccagattt tttttaaacc aaattccggt ttaaaaatca 300  
 cactactgaca acacagaaat acgaaatgct aggaaaagtc tagcatatga aggaaaaaca 360  
 tgt 363

<210> 45

<211> 412  
 <212> DNA  
 <213> Homo sapiens

<400> 45  
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 ttaaacagat atttagaaca aattgtaaag aaatacaaat ccttaggtac aatttagtat 120  
 cttgttcattg atatttgaag agtttaaaaa gaatcactga ttaaactaac catccttttt 180  
 ctttctgaat ccaaaaacctt ttcaggcata tactccattc caaatttttt tctagcattt 240  
 cagagcttca gaatatcttt aataccaaaa gcccttaact acttatttga ttatacattt 300  
 ccaatgagaa ggcattaact tttcttttaa gctatcatta gctttgagtc tctttataaa 360  
 agaaatttgt agaagcataa tcatggcaga gaggctccag ctttttgagg ta 412

<210> 46  
 <211> 421  
 <212> DNA  
 <213> Homo sapiens

<400> 46  
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 aattatgtga cattaagaaa taatttggtt gcatattatt ttcaaaaagc agtaagaaag 120  
 tagctattga gaaagaagga gggccatagg tttttcaata aaacgttaga aacattataa 180  
 aaaacgagac tcccattaca tggaaacaca tgatcaaaga tcagactaac acacattcaa 240  
 acaggcttgg ttcgaaatag agttctccat ttctttcaga tgagcctttt ttcttaggct 300  
 ctttcagaag cacttcacaa tgaacagagg tcttgccagc tcatttcatt agcggagaag 360  
 caaaggatat atggcagaat catgagaaga tggaaataag gcctgaggat atggcttgat 420  
 c 421

<210> 47  
 <211> 324  
 <212> DNA  
 <213> Homo sapiens

<400> 47  
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 acagcgatta catctccttg tgtctaaatt aaagtcaaag tatgaatttt aagatgattt 120  
 ttaattattt aacaagtaga aatacgatca gtgacaatta tcaattaaaa cattaaacaa 180  
 cccagttacc ttttcttaac agtcatgatg aaatatccct ttctgtgtct atcagaagcc 240  
 ttaattattc tctaccacac acaccacaaa agcttcttaa tagagcatca gtgtccatca 300  
 cacctttgtg tagaatctct ggca 324

<210> 48  
 <211> 502  
 <212> DNA  
 <213> Homo sapiens

<400> 48  
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 tgataattca tgtagaacgg gtgccacaga ttttaaagta tcaaaaccaa gagggcatca 120  
 caaataaac tttggtgaaa aatatcttca tcaaagaaga aaatatgaga agagtagtcc 180  
 ttatgcagtg aggagaaata tatttggtta agtaaatat ggtagtagat actgaatcta 240

tagatagcat	atattccaaa	tgtttttttag	ggaatatcaa	atcagatgat	gcttagatgt	300
tatagtaata	tcacttatct	catttggaat	gaaatttaat	gtttttttaat	aaatagcaaa	360
ttttcatttt	ttcactacct	ttataaaaaca	aattaaatat	ttagagtata	actgatcata	420
actaacatca	ccttgcattt	actaataaat	actctaaata	catttgggtt	attattggaa	480
tttatatcct	tataatttta	cc				502

<210> 49  
 <211> 398  
 <212> DNA  
 <213> Homo sapiens

<400> 49						
gagaaacact	atatttttat	ttattttattt	atatttgagac	agtcttgctc	ttattgccc	60
ggctagagt	cagtattttac	aaattacaca	cacataaaat	ctggatttct	agcttcttat	120
gacaaaggat	ctggcaacac	cgggcccaca	ttcagcccca	caggccacag	gtgacttgac	180
ttgcctccag	ttcacccctg	cccctgccag	ctttgtctcc	tgacaccgaa	acagcccgtc	240
agagctgtca	ctcgggttca	tgcgtgttac	ctgtctggcc	ctggaaaggc	cctggagtgt	300
gtggcgccac	tccagggtcaa	caggcatgtt	tagaaggagc	ctgccagggg	ctgcatggcc	360
gaggagccac	ctctccctgc	agaggaaagg	gatcctgc			398

<210> 50  
 <211> 424  
 <212> DNA  
 <213> Homo sapiens

<400> 50						
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atcatcctag	catgcaccca	ggaaatcagc	aaaaacccat	ttaagagtcc	agacttcaag	120
ggtccctcac	agtaatgggc	atctcttggt	ttgcccagac	agagcagacc	actcgtttcc	180
ccttattctg	ctaattgtat	ttcattttcc	tttaagcaac	cacctttcac	cccatcctga	240
atcctcagac	cttattttccc	tggctctagg	aattagcaca	tgacacaggc	ctggccactc	300
agagtgtttc	attcccctag	aagtagagat	gagaccccaa	acgggtcaat	gacactctcc	360
acttgaatt	attggaataa	gtaaatctct	tcccactggg	ttactgggtt	agcaggatag	420
aagc						424

<210> 51  
 <211> 424  
 <212> DNA  
 <213> Homo sapiens

<400> 51						
ctttttattg	attttttttc	aaaagcactc	tatatatgga	gtggcaccag	atttaaccta	60
tttaaaataa	aagtcataca	aacacaaaat	atatttctgt	gtcatgccag	ctcattatat	120
aataaacatg	ttatgacagc	taattctact	agaattactg	tgaatactta	cagtacactg	180
aattttattc	tttcacatcc	attttagttt	ttaaagagagg	ttcacgagtt	aaatgacaat	240
ggcatggcta	tcttgaatgg	ggtgcaaaca	tcattgggga	atgtggatcc	aattaatccg	300
aagggtccgg	gtgaccgta	ttagttttat	agacaagaga	aggggtttaag	atagggtgaa	360
atgagctatc	agtgggttca	atgtctcatg	aaagaaagaa	atgcattaaa	aaaaaaaaag	420
tttg						424

<210> 52  
 <211> 452  
 <212> DNA  
 <213> Homo sapiens

<400> 52  
 tttggtgaat aaactaacag ctttattaat gaaggcaaac atcagatcat tgtatgaata 60  
 ttatatatat atataaaaag aaatccaaac taacagcatt gtatttcaaa agtactgtac 120  
 ttctgttttct tttaaagaga cttgtcatct gtttttataa aacaaaatgg gtactcttct 180  
 cctaaaaaat cctggaaaaa tgaaatagtc aatttcaagc tgatgaattg aacacacctt 240  
 tctttaaatg cagactattg ctaggaagca aataaagtca agcatcagaa agaagatgta 300  
 tgagaaatgc atgaaagtca gagaaaaggg atgtagtgaa attactgcta atctttcccc 360  
 cctatatcca aagaccatcc aaaactgggtc tttcatacaa atataaaata actataaaga 420  
 gaggggaattt gaaaccatac ccatctgaaa tc 452

<210> 53  
 <211> 497  
 <212> DNA  
 <213> Homo sapiens

<400> 53  
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 cgcttcctct ttcttcttcc tcaccttggt catggctggc tgttccatca gcagaacttc 120  
 cagcgattgc cacattcatt gcataagaca aaggtagtca tgggctcatc agcactgcgt 180  
 gtctgcacct ggttataggt gcagttcttc ttcttgcaat tgctgcaact gaagaggtca 240  
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 ctgcggagat ggccccactg agcacgttcc gccgcacgag ggggttcttg ggtccttgag 420  
 gttgcttatg cggtgcgca cgcggttccg gtacttcatg tccgtgctct tgagctcttg 480  
 gtagatatga tcttcga 497

<210> 54  
 <211> 423  
 <212> DNA  
 <213> Homo sapiens

<400> 54  
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 gcagggctgg ggaaggggag gcggaggggg cgggtgggag gcaggtggag cgtgggagat 120  
 gtcaggtgcc aggggagtc tggccggatt ccacgctcc aggtgtttct accgctgcg 180  
 gtcggacaga cggcggatgg agctgcggaa agttccctcc tcttcacggt gttccccagt 240  
 cctctgctgc tgggtgaact tgcaccggca tcttctgctc agcacgatga ggatgccag 300  
 gatgaagagg atcccggcga tgacgagggc tccgatctgc agggactggg agtcgtaagt 360  
 gaacgggtcg tgttcctttg gactttctgc cttggccatg gtgaggagac ccacacagaa 420  
 aac 423

<210> 55  
 <211> 400  
 <212> DNA  
 <213> Homo sapiens

<400> 55  
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 gcaatctctg cctcccgggt tcaagcgatt ctcctgcctc agcctcctga gcagctggga 120  
 ttacagggtgc ccaccacgcc cggttttttg tatttttagt agagacgggg ttttgccatg 180  
 ttggccaggc tgggtctgcaa ctcttagcct cagggtgatct gcctgcctca gcctcccaaa 240  
 gtgctgggat tacaggcggt acgaccacgc ccagccacgt tctgagtttt gaggatccag 300  
 aaacaaaagg ctggaaagcg acactttctac aggtttactg atgagtccgg agaaaatcca 360  
 aaaacaaaagc cccactgagg gtttgtgaat ttggctgttc 400

<210> 56  
 <211> 288  
 <212> DNA  
 <213> Homo sapiens

<400> 56  
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 tggcatatgg acacccccag tgtgcgggt ctcgcttcgc gtacaaaagt ctcagcagga 120  
 aaccaacctt aatggcttgt tgggtggataa gacggcatca acttgtagat ttgcccattg 180  
 agagaactcc caggagcaac tgtcctctct ccagtagacg cggcacgttg ctaagaaggc 240  
 agatttcagg atattcacat tcatgcatta cgtatctcac actacctg 288

<210> 57  
 <211> 299  
 <212> DNA  
 <213> Homo sapiens

<400> 57  
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 gtatctcagt ctggggtttg ggtggataaa tactataaga ttttaagatga atgtgccccca 180  
 attaaagggg caaaactact gtacagtagg tctccacaca tattttaagt acacaggtac 240  
 tttgcaaact tgaaatgcac aaggcctcct tttatatagt ttgatactta catgagtgc 299

<210> 58  
 <211> 407  
 <212> DNA  
 <213> Homo sapiens

<400> 58  
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 actgccatct tcctctgccc cactctacct caactcggga ccgctcacc taatggtggg 180  
 ctttgcgctt tatgccatgt agagaagaca ctgggtaacc acagcaaata aacacgagat 240  
 cctgtactgc ctactctggg aatataaatg gctctgaggc caggggataa aaccaaaga 300  
 tctaggagta gctgaatgcc aagagacgag ttagaacaag ttttagttcc aaagatgatt 360  
 agactggaaa gaaaactgat ccaaggaggg tcatttctgt gtagatc 407

<210> 59  
 <211> 440  
 <212> DNA



<213> Homo sapiens

<400> 59

aaataataca	actagtaatt	tcttaagatc	ataaattcca	ttacagtaac	cctggtaggc	60
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<211> 436

<212> DNA

<213> Homo sapiens

<400> 60

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<211> 438

<212> DNA

<213> Homo sapiens

<400> 61

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<211> 387

<212> DNA

<213> Homo sapiens

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tgttcccttg aaaacttttt ttccctacaa aatttttaagt gaaaaatata atagtaaatt	180
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<212> DNA

<213> Homo sapiens

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<212> DNA

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<212> DNA  
<213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 2828

<212> DNA

<213> Homo sapiens

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acaa						3244

<210> 172  
 <211> 254  
 <212> DNA  
 <213> Homo sapiens

<400> 172  
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 gcacgagctg actttttccca acaggctggg tcacagccac ctgagctacc tgagcgtaa 120  
 gggcggttcc aacatgtcct ctttcaagtt aaaagaataa aagacttcca gccgagattc 180  
 tctgtcctgg ttcttcttcc gagtcacacc aggatcaaca gagcttgggt gtgttccct 240  
 atccctacct gcag 254

<210> 173  
 <211> 1763  
 <212> DNA  
 <213> Homo sapiens

<400> 173  
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 tgctggttct atcacaaatga aacggctggg ttgtgtgctc ttggtgtgct cctctgcagt 180  
 ggcacagtgg cataaaagatc ctaccctgga tcaccactgg catctctgga agaaaaccta 240  
 tggcaaacaa tacaaggaaa agaatagaaga agcagtagca cgtctcatct gggaaaagaa 300  
 tctaaagttt gtgatgcttc acaacctgga gcattcaatg ggaatgcact catacgatct 360  
 gggcatgaac cacctgggag acatgaccag tgaagaagtg atgtctttga tgagttccct 420  
 gagagttccc agccagtggc agagaaatat cacatataag tcaaacccta atcgatatt 480  
 gcctgattct gtggactgga gagagaaagg gtgtgttact gaagtgaat atcaaggttc 540  
 ttgtggtgct tgctgggctt tcagtgtgtg gggggccctg gaagcacagc tgaagctgaa 600  
 aacaggaaaag ctggtgtctc tcagtgtcca gaacctggtg gattgtctca ctgaaaaata 660  
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 caagggcatc gactcagacg ctctctatcc ctacaaagcc atggatctga aatgtcaata 780  
 tgactcaaaa tatcgtgctg ccacatgttc aaagtacact gaacttcctt atggcagaga 840  
 agatgtcctg aaagaagctg tggccaataa aggccagtg tctgttgggt tagatgcgcg 900  
 tcatccttct ttcttctct acagaagtgg tgtctactat gaaccatcct gtactcagaa 960  
 tgtgaatcat ggtgtacttg tggttggcta tgggtgatct aatgggaaag aatactggct 1020  
 tgtgaaaaac agctggggcc acaactttgg tgaagaagga tatattcgga tggcaagaaa 1080  
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 ttgctaagta aattagtaat gtactataga tataactgta caaaaattgt tcaacctaaa 1680  
 acaatctgta attgcttatt gttttattgt cccgaattca gttgggttaa tatattgtcc 1740  
 tctgtaattt cgatccttct taa 1763

<210> 174  
 <211> 571  
 <212> DNA

<213> Homo sapiens

<400> 174

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agctcaaaga	cctccaggag	ccccaggagc	ccagggtttg	gaaactcagg	aactttgcac	180
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tcaagcctct	ctgcaaggag	cccaatgccc	aggagatact	tcagaggctg	gaggaaatcg	300
ctgaggaccc	gggcacatgt	gaaatctgtg	cctacgctgc	ctgtaccgga	tgctaggggg	360
gcttgccac	tgctgcctc	ccctccgcag	cagggaaagct	cttttctcct	gcagaaaggg	420
ccacccatga	tactccactc	ccagcagctc	aacctaccct	gggccagtcg	ggaggagcag	480
cccggggagg	aactgggtga	ctggaggcct	cgccccaaaca	ctgtccttcc	ctgccacttc	540
aacccccagc	taataaacca	gattccagag	t			571

<210> 175

<211> 472

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> n=a,t,g or c

<400> 175

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attcaagttg	ttagttgaaa	gaattagaca	ccagtgtttt	ggtatcttaa	cttttattaa	120
tgttggttat	cacggttaat	taatttaaaa	ttgtggttta	ttaatatattt	aagttaactct	180
catattatat	tttattaatt	ttttcttatt	taaaaagctt	gtctctgcca	cttcctgtgt	240
gacctgggca	agtcatttta	cctctaagag	cctcaaattt	cctcatctat	aaagtggaaa	300
tataaataca	aagcttgtag	aaatgtcagg	aaaataaata	aattaaatgc	caaatagtca	360
atgagggata	ttagggcaaag	gccagttttg	gtgggcattt	taacctatgg	agactcagtg	420
cctctgtgtg	tcccattatc	acctccaaga	catcctggca	acaccaccgc	tg	472

<210> 176

<211> 412

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> n=a,t,g or c

<400> 176

gatttttcagg	ttttatttgc	ctgttataat	tctgatatta	tgtacatata	tatatatact	60
tttggttttt	tgtagagggc	ttatcagtag	accaagcaca	ggcatacagg	gaggctgtgg	120
ctgctgagca	gtgctgggag	aaccaatctt	tccttttttt	ttgtctgttt	ttatttttcc	180
tgggatgggt	tcatcaaagc	taattgctat	caatcctaga	aaccacctag	ggactcagac	240
atctgcctac	acactagtgg	cgtaaaggga	aggacagggg	tacaaacttt	caaagtcacg	300
gtgtattttac	attcccaagg	tgggggcggg	aggaggctga	ggaagacaac	tgttcagacg	360
ataggggagg	gcaggggctgc	taaggggtcc	tgggggggtg	gggttcttcn	gg	412

<210> 177  
 <211> 490  
 <212> DNA  
 <213> Homo sapiens

<400> 177  
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 gtggcctttt tcttgtagtt aggcattctt agagctctgg gcatgggctt gtcttgccca 180  
 aaatgtcttt tagcaaagta atcatatatg ccaataggaa atagttagca aggcagatcc 240  
 acaagtaagc gcctttccct ggcggtgtaat aggcaaaagg gctcttcgcc aagatagcat 300  
 gctggatgtc ccgcagcacc ggagagaagt ccttgctggc taacgagttg atcaatagga 360  
 ggaaattccg ctgtgctaag atgtagtctt ggccgtagtc ttctgtacc tcagcgggga 420  
 ggtggtccag aatgtccttc tccagctttt cccacttgtc actggtgcct gcgatatttg 480  
 ttaagaagcc 490

<210> 178  
 <211> 445  
 <212> DNA  
 <213> Homo sapiens

<400> 178  
 aaattttctt gatttttaaaa aatgtatttg tgttttgcag gttggaacgc aaaccagtc 60  
 tggccacgtc ccgtgaagtt gtggacaaaa tgtttcagtt tctgttcacc tctgtgcgtg 120  
 tgtgtgtatg tgttgtgtgc atgtgtgtgt gtgtgtgggg gtgggggatg gggtaggtat 180  
 gtgcttttgg ctcatgtttg tgatgataac tgaagtcttt tgtgggtccg acctgttgta 240  
 ggggtgtgggg gaaagtgaag gaagagaatg aaggtagtc cccgccgttg caaaccttca 300  
 ccaaaccacg cggccagtt ttcgtgagta cccctgtgtc ccagagagga ggaccagcg 360  
 tcctcggtc tgcgcaaggc tttcttggtc tgggtgggtac tcgaggcagt tgagaacctt 420  
 gctgagctga gcgggcacct cgcct 445

<210> 179  
 <211> 474  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 179  
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 tatatatata cacacacaca cagtactgta cagaaacaaa catatgcata cctactatga 180  
 acggccaagg caagggggat gatggcaact tgactagatt ctgagaactg ctatttgtcc 240  
 acagatagca tgtcaatgtt gggatgggtt ggggagtgag cgtaggctaa gaaaaaaaga 300  
 gatgaagtga ctatgtgctt ttctttaaac ttagtagtta cagacatagt acaggactct 360  
 actnaataat tagtagagat catngaaagt ctggttggtat attgaccatg agaccaacag 420  
 agtgaccact attacttaat gcaacatttt ggaaagtcna caactgatgg gaaa 474

<210> 180  
 <211> 510  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 180  
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 taagatgact tagtatTTTA aataacttga agctctgtac tgtggctctt gttcataaga 120  
 aacactgaac caacaagcag cagattcagc ccagccaaga ctctgatgcc ccagtggaaa 180  
 tcactactca caagccttaa ttgatacagt tttacactgn tttgccaag anntgtacna 240  
 taccaactca nttaagagta ttntcttcag gaaacaattc atatcttcac atagtcatta 300  
 aaaagtttaa caatttaatg agtaggtttc cctatcacat tttggcaata tcataaaatg 360  
 gttttagaca tgaaagagct attatggatt tagaaggcct taaatttcct aaaccaatat 420  
 tgaacatcga ttaaaccngg tattggctgt aaatgggaca atatattggc caatccctgg 480  
 taaccctggg gccccaatat aggnaagtta 510

<210> 181  
 <211> 589  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 181  
 atagctacat actttattca aataccactg ggaggcaagg ggtaagaggc aagggcagaa 60  
 tgtacaggtc aggattctag tgtcttcagc ctgccgacag caacctgggt gctgggccct 120  
 gtgtctcctg gagccaaggg ttagggcctg agcagctgtc actctctggg aagcccaggg 180  
 agtggggctg actgagcagg ggccatagag cctagtaagg gaagaggag ctggcaagga 240  
 gccagggag ggaggctctg tgaattgtct ctgattcctt tcctggagcc cctgcctcgt 300  
 cacctcctgg gatgcgtctc aaggctcatg aggtttagt ggaggaggac tgggggctgt 360  
 ttctcagaca aagaatgagg ttattggcac agaattggat cagggggcct ctgtgcaact 420  
 ccttctgcc ttcagaaagg gagggggcat tnaagggatg agaactccac taagtcctc 480  
 gaancccca atcccaatg aggtcctca aagctactct cagccctgag tgggagacac 540  
 ggccagctct gggcaagtct ctgggtggct agccttagca ctgtggcaa 589

<210> 182  
 <211> 465  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 182  
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atgtattcct	ccaactttcc	ccaatgataa	tatctcacac	aaccatagat	tatcaaaacc	120
agaaaactga	ccaggcacag	tgggtgtcac	ttatagtccc	agctactcag	gtggctgagg	180
tgggaagatc	ccttgagttc	aggagttaa	ggccagcctg	ggcaacacag	tgagaccctg	240
gctctataaa	caaaaatggn	agaaaaccag	aaaactgggtg	tcatcaattg	tgtttaagga	300
aaccgaggct	cctttaaaag	tttgttataa	aattatagat	atctcctaaa	tattgagggtg	360
gaaagattcc	cctgggaagc	agcctagtcc	agaaagttga	agacagtgc	atcccagata	420
ggttaatact	tctggccagc	accataatta	caccctcct	tnggt		465

<210> 183  
 <211> 442  
 <212> DNA  
 <213> Homo sapiens

<400> 183	
ttttttgttc	tcaaataat
gcagaaact	aaggtcagat
acaacctcct	ccccgaccct
ctgttacaca	gggtgaatgg
caggacacc	ctgcccttct
atctcacagc	actctaagg
tgtgccctg	aggaagccga
cctcttcac	ccaaggagcc
	at
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	120
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	240
	300
	360
	420
	442

<210> 184  
 <211> 437  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 184	
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atgaaaataa	tattaaagg
aaaccacaca	gtaaaact
gtttagaaat	tcatatata
acataagatt	ttcatttaac
gaaggctgta	aaatcctgt
tagcaaaaat	acagtacttc
tggtttataa	ttatatn
	60
	120
	180
	240
	300
	360
	420
	437

<210> 185  
 <211> 316  
 <212> DNA  
 <213> Homo sapiens

<400> 185	
aacagaaaac	cggcaattgt
gagagcaaga	tataaaatca
	tatcaaccct
	ttagataaa
	tacaaaggac
	aatgaaata
	60
	120

cacaaaaaac aatatat	ttttt	aaaaatccac	tgtagtttt	taggaaaaag	attagcagt	180
ttccattaag cactacatcc	cactattcca	tttttaggaa	ggacagatgc	ttgaggccat		240
aggttaccag ctcttg	gtctt	taaaa	atgcaagtaa	gttgctaaca	ttttcaaata	300
agatttcaac	ataact					316

<210> 186  
 <211> 207  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 186	
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ggaaaaccca ctggggaggt agaggaaatg acagagaaac cagaaatgac agcagaggag	120
aagcaaacat tactaaagag gagattgctt gcagagaaac tcaaagaaga agttattaat	180
nagtaataat taagaacaat ttaacaa	207

<210> 187  
 <211> 687  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 187	
tgcaaaccac accaatcat tttattgtgc aatttccttc taccagaaaa ttactaaaaa	60
tataaatatt aactctctaa aaaataactca gaatagatct gtaatcttcc tcctcctcct	120
cagaactgga gccaatcttc ttctttaaac ctgatggatt gcatacatgt atgtcttcca	180
tatcagccac atacacaaca ttcagatata cttccgtctg tgcaggggga tacaccagcc	240
tcctgccagg ttctggaagc tcacettata atctaccagg ataaagctgt gtgctgagta	300
ggagggttatg gtgggggttg ggagtaacaa ggagataaaa gaccttgtgg tcccaacttc	360
cttatgtgga cagagaagat aggtccttta ctctcctca ttaccctgnc ctctcatgga	420
ctgggctaac tgaaggccaa gctcccagag aagctggact cactgtgcgg gattactgag	480
ggtgtggctg ccaggctaca gtcacaggaa ggncagactg ttgagatgga catggaaacc	540
aggtgaggct ttggatggna agctggtctg gggcaaagct ctgcaggatg agtagtagct	600
gttcggcggt gntttgggna gcccagacc ctagcaccag gtactatgtg cagcatctaa	660
gaccagnacc agtctccaag agcccc	687

<210> 188  
 <211> 587  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature



<223> n=a,t,g or c

<400> 188  
tcaaataatc catctaacag ccatgagacc actcaagtat ttgaggtcat cagctgcgtc 60  
catcaagaca tgatattgaa catggacacc atctggctctg ttggctctgtt tttgttggca 120  
aaggactcca aaaggatgca gttgtatgtg tttcagctga accacatacc atagctcctc 180  
tcccctcaca aaaggggttc tctgggggga gaaaagtaac tgattatacc tctcatgtct 240  
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cgtcctcaga tgtccagagc tggcaaaagg tggagcaggc agcagctttg ggcaccagcc 360  
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tgccactgaa ataacgttta agaacctggc tgcatttcac agaaatagcg taatgggaaa 480  
tcattatgta attaaacaaa gcatgaagct cattatcctt ttccttttaa caaaccttca 540  
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<210> 189

<211> 469

<212> DNA

<213> Homo sapiens

<400> 189  
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aattacaaca tacctgctat ttacatgtaa tcatactttt atatatagct tgaataagtt 120  
ttattacatg taaactataa gatattacaa gttaaaactcc agtcttttct ggatattcaa 180  
ttgaaatact actggcagaa acatacagaa aacaaatacc catttcagtt cctcaggtac 240  
cattactggt tgaatgatca agatctggcc acagaagaga agtggaaata tgcacaaaa 300  
caaaacttat tcttaacatg actaacagta ttgttattta aacctaaac ataattaata 360  
attggatcat taaaaacaca acttcaattt atatagcacc tttcttccga agagttgaaa 420  
gcattcgtgc ttatctctat tatttcgttt gtccccataa catctctat 469

<210> 190

<211> 458

<212> DNA

<213> Homo sapiens

<400> 190  
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agaataaaca aggaaaagaa tgataaaaga gttggaaaaa tgagcagggg tcatgccaag 120  
taagaatgtg tacgatatgg taggtgtcat tggatgtta taaaatgtat tatgaaaata 180  
ttttgatgat atttcaaaag ggaaataatg ctacctaatg ataatatgaa aaaacgactc 240  
tggctgctgt agggagaaaa tataggcttg gagttgggag aagagtgaaa agaaggccag 300  
ttggagacaa ttatactaca tttagcttta ggaaggtgct gaaggagtca tggattgaga 360  
ttgttttcca agttttcagt tgaacaattt caatatggtg gcattactta atgacatagg 420  
gaggccagag aacaaacaga tttggaagga tgtggtag 458

<210> 191

<211> 476

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

**SECRET**

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<210> 192
<211> 582
<212> DNA
<213> Homo sapiens
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<400>	192						
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acttaagtgt	ggtaaagtat	ataaagggca	cagatcttaa	gtgtaccagg	taatgaattt		120
tcacaaattt	atgcatccat	ggtaaccgct	aatcagagaa	catttccagc	accagacgt		180
cttccttggtg	ctctttccct	gtcaattccc	ctgtctcaga	agcaaccacc	catctaattgc		240
ctttcaaaaa	caggcacaga	gattcgttgt	gtctgttttt	gaacttcatg	cgaatgaaat		300
cttacagcat	gtcttccgtg	tgtctggcat	ctttagctct	ttatgtctgg	caaagtcctt		360
tatgtcattc	tatgtagcag	gagtttagaa	ccaactttat	gggcctgggt	tggtggctca		420
catctgtaat	ccagcactt	ctggggaggcg	gaagcagaag	gcaggcagaa	cagctgaggc		480
taggtgattc	cgagaccagc	ctggggccaac	ataatggaan	ccccatctcn	actaaaaatt		540
caaaaaatta	gcgggcntgg	gtggaagggtg	caaccggtaa	cc			582

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<220>
<221> misc_feature
<223> n=a,t,g or c
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140

<210> 194  
<211> 455  
<212> DNA  
<213> Homo sapiens

<400> 194  
cttcatcaat atttattggg cgcctattat gtgcaaggcc ttacactagg cgctggggaa 60  
gatacaaaga taaatctgac agactgccct caaagagctt acagtctagt ataggagcat 120  
acagtctctg gagaagatat ttttaagtgt actaacctcc cccatccac cccacaaaa 180  
aaaaagaaaa aacctactag acttggtttc ttccatttac ttttagttta gcagcttcac 240  
gtaaaaagca taaatctgaa agtcttttaa aatgcatact tttactggta aacaaaattc 300  
attttcatta gaaaaaatgc tgaatattta ttgcaattaa gaaaaatctt cagccgggca 360  
cggtagggctc acacctgtta tctaactact ttgggaggcc gaggcagggtg gatcacttga 420  
ggtcaggagt ttgagaccag cctggccaac ataag 455

<210> 195  
<211> 444  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 195  
ggcagttttt cctgtttatt atatagttat tctaagggtg taagtgtcac aaagttaact 60  
tcaagaggaa taacatggct cagtgtgaaa cacaagggtac aacattttac aatgaaacca 120  
cagcacaaag taactgaact ttcaaaattg ggtagttaa tgaaacattt tgtcaaccct 180  
tagctctata agctctgct gatggactta gttgatggat ttaaaaata tattgctgtg 240  
tcaaattgtt taacacaaaa tgttttttt taaagagaat acacatccaa tcaactgaaa 300  
ctgtgagcag aaagtatgta acctctttat aaaaaccgtt atccaaattt acaacattca 360  
taatataatt caaagtanag agttcttaga aaaataaact caattccttg cttactgatg 420  
agtatcaact cctcaaaaca catc 444

<210> 196  
<211> 450  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 196  
aataccattt tgagagtaat tttaaagact aatgcgaaag ttcgggagca cattgtatat 60  
ttgaaataag tgtagtgtgt gcaaagacca ttttctacct gtggataaaa atcaattccc 120  
ccaaaggcct aaaagcatga acaatgttta ttttcgagta aataattaaa ctacatattt 180  
aacatggaaa aaattaaatg aatgtcaaaa ccaaaattaa gaactataag caaagcatgc 240  
agtctctgtt aacaaaactt agttgtgaaa ctacattttt cattttgtaa atgccattat 300  
ttcatttcat aaaatggtaa aaatcctcag tatcattctt tacacttgat gcggcaaaca 360  
cttcctttcc ctattttcct cggnatcttc tgcaaaataa atctaccatc tcaagttccn 420  
taatggttca tactttcttc tcaacatatt 450

<210> 197  
 <211> 447  
 <212> DNA  
 <213> Homo sapiens

<400> 197  
 atcaatcata tttctgtcat ctccaaccta agatattttt tagattgtct ccctattctt 60  
 tgattcaaaa gccattaca gaaactatga acttgacctt attctgggtt ttgacaatta 120  
 tgagacagaa ataaagaaat cgcaagcagt tcttttcttt gcacactgac ctttttttaa 180  
 ttacatcatc ctctatgatg atggtgcttt cacaactgca gctctcctgt atgtcaaaat 240  
 cattctgggt tccaggtaaa tggacaaaagg agatttgcct tcagtgtcta gaaggcaatt 300  
 tacttttcag ctgccttaat tacctatagt ttaaagaaag gaatgccaca tatagggtcc 360  
 tttaaaccatc taaaatgggg aggttggcct ccaaggggca ccattcccaa acatttgatt 420  
 tcaagtccca gaagcctttc atatatg 447

<210> 198  
 <211> 288  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 198  
 gcaacaaaag aaactattta tttggaatat gcattaccag tacaaattag gagactgtaa 60  
 aacctacacc gtgttagtat cattagagaa cacaaaagtt cagttggaat caaaaggagc 120  
 agaagcctgt gctctcacag aagcagaaaa gcttaaacct tcaaaaccaa aacagagcag 180  
 agtttgcagg tttatattct gaataataag aaatggggng gggtaggggg agaataaaac 240  
 caacaaccaa aggaaagcat ttcaaattga aaatgccaaa ggaaagaa 288

<210> 199  
 <211> 318  
 <212> DNA  
 <213> Homo sapiens

<400> 199  
 tttttttttt tttttttttt ttattttttc ataaaaatgt aatttttaatg atacagaaat 60  
 agtatatgta catttctttc cacagcagca cttcattcat ctctaaaaaa tttaacaaaa 120  
 ttaaggctaa atcagagcga gctgatagga aggggtattc tatgtggtgg tcttcttaaa 180  
 gaatgttctc ataaatatag gatgttctgc agacaagaaa taaaaataaa acatgctgaa 240  
 caagatacca aaaatgggaa atgcagtaga aaatgagccc ctttctacca atctactaag 300  
 aatcccaact cccctggg 318

<210> 200  
 <211> 231  
 <212> DNA  
 <213> Homo sapiens

<400> 200  
tctattttaga tctgatttita ttttgcaata tttattatat attcaattca aatgtactca 60  
ctattgtgct aggcatttga aagtaaaaag tataaagctg cattttgcgc tctcagttag 120  
gtttaagtca gggaaatgag gcatgcacac aaaataacga gaaagtagta taatagctgt 180  
gatcattagt tatcaaaaata agtgaatgag ctaataatca ttgttagaat a 231

<210> 201  
<211> 460  
<212> DNA  
<213> Homo sapiens

<400> 201  
taacagaaaa aagtcaaatg acaattttta tagactttta aacagtgtac aagtaaaaaa 60  
cactgggtttt gtattttcaaa agttgaagga agatatccag tcattaaaca gtctacaaaa 120  
catatgccag taaattacat aaaagactat gtacaatata aaaagagctg aaaacagtct 180  
tcactgtaaa aataatttta aacaaacttt tcaatttttaa atatcatcta tagcacacaa 240  
acatcatgca aatggaaaaac taaatatact gcattcttta gtgtagccaa ataaattcag 300  
attgagacat cttataagta agggaaatgg ccattcaata cgattttttt ctctggcagt 360  
aatggctcta gctgggtgtt ttatgcataa agaacagcta tatttcaaac cctttttatt 420  
gtaataaata ctaaagcaac agaggaatac tttattaatt 460

<210> 202  
<211> 440  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 202  
gtttattaaa ccagatttat tctccacaag ctgaagatac ctgagggttac atgaggactg 60  
gcattaaata atttataaat gtatttttga ctgacagact tttatcataa ggattcatgt 120  
gtttacaaaa gcaaaatcca acctctccag agctagaaag tgggaagggtg cccgggctgc 180  
aacacagcct tggggggagga tgaggccaca taattctctc tgcccacact ctcagaatgc 240  
cccaagaagt tagtagctac acaaagccaa gccttggggg aaaacctggt ccgtgggtgtg 300  
gactctccaa aatgcagacc caaccggang ccggggccgc ctttccatct ggaggcactg 360  
cagggtttct gaaagcggcc catcccagga gcctggcaaa cacccccaga gaccctcagg 420  
atgcgcagcc ccgggggcttt 440

<210> 203  
<211> 210  
<212> DNA  
<213> Homo sapiens

<400> 203  
aaagtaaagg atttattgta atctgcttac agtcctttgc aaagacagac atatgttttt 60  
gcataaagat ataaattgct tcatttttaa ctaatttagt gtttttttaa attatatgaa 120  
cttttggtga attatgaact gtaccaaacc aagattttta agagcaatat ggtacaaaaa 180  
taagagcaga cagacaattt ggactgggac 210

<210> 204  
<211> 529  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 204  
ttttttgact agaaaggag cactttaatg aacagaagta cagacgtgct ggcaaggatg 60  
gaaatctcca ctggttcctg gcccccttca cctccatgca tccccagcat ggggtgtaat 120  
cattacccaa gctctcgctg ttccccctca cccctgcag agtccagcag gtctagatac 180  
gtgctctttg aaatgtgttc tgggattaaa aatgggtgcc tgaggctgtc taaccctcac 240  
aaaagacaga cacatgcaca cacgggcctt ggggagggct gtgtattagc agtcagggtg 300  
gccctcctgg gagagcttgc tcaagaactc ttctcggaag gaaaccacc ttaaggtagg 360  
gttctgatag gcagantccc agagggacag ccagctgcta gaagatgggg ttatccaggg 420  
tttgtaaggt ttaaacaacg ggcagggagn caaacgagtc aaatggtttc ctctgcgaa 480  
ttttggctcg aggcaaattc ctatagttag ngattataat cgtaacatg 529

<210> 205  
<211> 445  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 205  
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gtcagtcaca cttgggcgag tccggctcac ataggaactg ggggtagaag aggtacttta 120  
agttgtactc agtttgggct aagcagttag caatctcctg gtcacacttg cacaacagtt 180  
cttggcattt gttctctgcc ggtccgcaca ggacgctctg attgacgcac tgccaggagt 240  
agcgtctgt cttggggctg cagcggcctc ctgagctcga gtgtaacaac agtcgtggcc 300  
atggcagcac cagtcaatgg catcgcgggg ctggccatgg cctcccaagc cacaaaagca 360  
accatatttc atataggcga tgggggttcg gggaccaaca caacccccag ttctgcccag 420  
tttcaggat cccangccgg tggnt 445

<210> 206  
<211> 197  
<212> DNA  
<213> Homo sapiens

<400> 206  
tttttttttt tttttgttat atacatttta ttgaaaaaaa atttttacaac aaaatatttt 60  
ggcaaaactgt aaaagtatac ataagtgcac atatatcctc cttttaaaat acaagcaaag 120  
tgtgagtata cacggtcata aaaatatctt taaaatatgg tggtagaaaa caaccttgta 180  
aaaacgttgt attgtcc 197

<210> 207  
 <211> 413  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 207  
 ttcttttagc tgccagaact ttgttaacca cctgggaccg tggacatctt ctctcgtgtc 60  
 ttgagccctc atccccaccc ctccaagccc tcatgcccac cacaccgtgt cccacattcc 120  
 ccatcctccc ctgtctgctc cccatctcaa gtccaattcc aaggccagag ccctggcagc 180  
 ttttctggga gacagcatga aaaggagggg agtggagatg gcagagatgg ggtggagcca 240  
 gtgcgctgtg ggtcctgttg gcgtggtgat gtgggggcca atcctgaggc cagagggttca 300  
 tcaccgtgat ctggaagccc acggggccccc tgggtagaaa cttgggaaga acaaaggggg 360  
 aaaagaaacc agaacaggaa gaagacgagt aagcnttccg agtttcacga gat 413

<210> 208  
 <211> 256  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 208  
 tctgatanct atgtgaaaat tcttttcaaa gtaggtaaaa gccatcacta tatttcaaag 60  
 aggtcacagt gacatcatat acaaaaggaa ccagattgaa aaagatattg ctgacatagc 120  
 cagtagtgag attactaaag antaaacaga aatgccttgg gaaattattt ttacaccggc 180  
 ttgaattgaa acattaaagc aaaatgaaaag ctgtaaggng ttactagtt ttcccaaagt 240  
 cgttgtcaag tttatt 256

<210> 209  
 <211> 331  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 209  
 ttttnttagg ngcaacaatc aagctctatt tttgtaatta aaaatgtatc caaagggaaa 60  
 aaagaaacaa aaggaacaat atttgtactc tatgttgctg cagagagcag aactgcgag 120  
 ggggtgctag tccaagggg tggactgtgc tgtgctagtg ccctaaatcc tgcaagcgcg 180  
 ggggtggggg ggcgggggag accgctgtcg ggggtcgtga gttccgggcc cttgtgtgca 240  
 tgttcacgtc ctgtcattct tgccccagc tgagagagca gtagaggaaa ggcactacat 300  
 ccaccagcct ttgcattctc ctcggagcac a 331

<210> 210  
 <211> 410  
 <212> DNA  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <223> n=a,t,g or c  
  
 <400> 210  
 ctttaatggt agtgacagtt ctatacagca cagacataac tgaagaaaca cattactttg 60  
 atttggggtt atgtattgta cttttaatca cttactgaga atatttcaaa tttatattct 120  
 catcaggaaa atgtaaaaaa gatactgata tatattctat gatttttatg ccacaaacac 180  
 cctgtttatg agatcattta atagggaata caattatact gacatctctt gttccnattt 240  
 tccccattag gatataatcc atacaacttc aaggataggt tttaaaaata atccattcag 300  
 gggtattcnc aaaattttgc ccnataaaat tnggccaaagg tatggccctt ctggttaatt 360  
 gcctaaaccc caatatttcc acccatataa aggcntgggtg gaccnccatt 410

<210> 211  
 <211> 349  
 <212> DNA  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <223> n=a,t,g or c  
  
 <400> 211  
 ttggccaggc tgggtgtcaca actottgacc tcaagtgan c taccaccctt ggctcccaa 60  
 agtgcctggga ttataggcgt gacacntggt gcccgcccaa cattaatatt ttttaattagc 120  
 tactacagct tagagtagct gctatgggag tgtggccttt ttgattaaat actagctgat 180  
 caaccctaga atataaatnc ttgttttata acatttagat ttaaataaca atanggaatg 240  
 taaggcncca tgaaggggcaa ggaatgcctt tttgttttgt tcaactgctgg ggtctaaaat 300  
 aatgccgggg ctcaaatatt tggtggantg aggtaaatat ggctggact 349

<210> 212  
 <211> 355  
 <212> DNA  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <223> n=a,t,g or c  
  
 <400> 212  
 aagttttcta nanttttaat gaagccaata aggcataata attgtgttct ggcagacatt 60  
 aagacatgct ttctcttacc aaagaaaatg gcacgtttta tcaaaatttg acaattcaga 120  
 gtaaagggtta ctgagattaa gtttcagagc accaacttaa acaaaaacac caaaaaattg 180  
 ttatccaacg tgggaaagag ggagcaagga accaagggga taaaggggga attaaatatg 240  
 tgttccttcc catctccaaa atccttttag ggggaataggg agttctgggc cncctgtgag 300  
 gccaccacat tgcaccccc aacccccatt cccaggatct taaattttcg ggntg 355



<210> 213  
 <211> 385  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 213  
 tttttttttt tttgagattg aaaccagaca tacttatttt aatcatattt tatataaaat 60  
 agacatttac ataaatttaa ttttggaag acctaggcaa agtatacatc attagactca 120  
 atgggagaaa tactttatgg aagataaatt ctaacgggca cagccaaagt aacaaaaatg 180  
 tacattttaca tacaactgat ccaaacagga agtaaaagcn ttntggaaaa anggancatg 240  
 ttgcaantca tttccccctg gacaaangga gggntctgcg tgatttacag gcaattcaat 300  
 tgttttccac ntttttaaag gcaagcctgg cttctacagg tattttantt ccttgggggg 360  
 gagtttcacc tcntcttttt tcccc 385

<210> 214  
 <211> 294  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 214  
 taganaattn nctgtaggtg ttcctttatt ttatcaaaaa tagtaatttt gtataattnt 60  
 aaatcaggaa atctaagggg acatgttacc caatcacac agctaataaa atgcctccca 120  
 ttacagaccc agctttttta atattcaata acattcacag aattggcaag ttagtctcca 180  
 aaaaattcta acagaaactg caactcaaaa agtgtgtcta tatcagagat ggtggttaact 240  
 tcctcaaaga agttacatgc aaatncccag ggggtctcatg gtttacaagg tgac 294

<210> 215  
 <211> 368  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 215  
 taagagataa aattattttta ttggttcaaa taaactgaaa aaaatagaca tacaatcac 60  
 ttagttgtaa ttttaaagaa ttcctcaaac taaacttgaa ttaagcata agcttatgct 120  
 tacagattac tatttgctag cttactaatt attatttgaa ttaagcagta agaactaaaa 180  
 ttttaagtttc ttaggtttta cagattgatt tgaaggcat gctgtcttgc taatattgaa 240  
 ataaatttat ttcttaaaaa ttattatttt actgggttta tgtcagaggc aggnctgtg 300  
 gttcttgagg gnagggncaa gtttcttctc agggatcntc caaaatgaag gctctcaccg 360

ttctgccc

368

<210> 216  
<211> 235  
<212> DNA  
<213> Homo sapiens

<400> 216  
gacttacagg ggaactatat atgtatatgt atattttatt aaacacccat ctgcactatc 60  
agtattgcac taatgtggaa ttgaaagac tattttgctg atactgtata tatgcgcac 120  
attcctgatt agattgttgt aaagacaatc tgaaagatct aaggttttta aataatttgg 180  
ttgaaaata tacagttgtc ttgaaggaat tgctgtgata catgaaaaaa aaaaa 235

<210> 217  
<211> 195  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 217  
gccaagcaat caagcaaaac acaagaccaa tagaattagt agacagaagc cttggggaca 60  
atggcagtg ccttcctgag taagacatga atgccatctg gnggntccat ttgaaactac 120  
agtgcagtaa ccaaagancc taatgttttc aagcataaag gnacttttng tgaacaggtg 180  
ggcaacacag gcagg 195

<210> 218  
<211> 343  
<212> DNA  
<213> Homo sapiens

<400> 218  
taatggttaa ggaggaaggt ttattggctt caattcccca gttgatgttc aacactttat 60  
ttagttctca tttggatttt aaacatttgc ttgacaaata atttcccatc aatttccatt 120  
tctttggaaa gctcccacgt gtaatttatt tttaacatct ctgaagagca gaattaatga 180  
tatttcctag ctgttgctcc agatcatgta gggtagagga ggctgaaaac tgctacaagg 240  
gaaggcatct gtattgtttc aaaacgtcag gacggtagcg gatactcttt ccagagcgac 300  
gaggggtcaaa tcccttcatt tatttttttc aaaagggtaa aac 343

<210> 219  
<211> 312  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 219  
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 ggggaattgaa aattagtaga aaaattccaa ggggaccagt tagccacaac aaagaatggg 120  
 gttcagggaa cttcttaggg atgtatcttc ccctcaatac aggtagagga gcagcatcag 180  
 aagcagggct ttggagagag gcatagaaga gaatcacctt ctcttgccc acgcaagcta 240  
 cctgggtgta cctntcaagt tcagggccag cttcttggtt cttccccgct cttggtagat 300  
 gtaaaagggtt tc 312

<210> 220  
 <211> 282  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 220  
 agactttatt caaagaccac gggggtacgg gtgcaggaag gggaggagg gctgggggga 60  
 ggccaagnaa ngaagcatgn caccgaggtc cagcttcacg gtatttggag gtagcacggt 120  
 gctcacagaa agcaggaact tgtccaggga ggcgtcacc aggggtgaact cggcggggag 180  
 gtgggcgcca gggtcaccag caggcagtg cttaggagct tgaagttgac cgggtccacc 240  
 caagcttggt cgcgtncag gtcttcagg ngacangcgt tg 282

<210> 221  
 <211> 493  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 221  
 tttccaagcc aacatttatt nttgcacaag cctgttgag tcctgagggg atcttctggc 60  
 anaggtntgg gtaggagctg agtggccact ggggtgaagg gagacagagg aggcnttggc 120  
 agcaggntcc tatccagatg atacatgaga tggaggctcc tcagccacac tccaggggagg 180  
 gtgggggtggc aaggggggatt cagggataat ggcattaata atacaagtgg taaacaaata 240  
 accaagagggn tctggctggg tacgntacac aaaanttagc agtaagagtc cgtgctttca 300  
 cattcctatc agacagatct gagttcaaat cctgtatgtn tagcagggtg aggtatctgc 360  
 tttcttttcag agcccatggg tgcacatctc tgagcctagt tacaacagtt ggcacatagg 420  
 tnggtgacaa ggagggcagc tctttgattc ctgnttgctt ccacagcaca gagagttaag 480  
 tatggctggg nta 493

<210> 222  
 <211> 305  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature

<223> n=a,t,g or c

<400> 222

ttaattatng	atattccccc	tcaccgccct	cagggancgg	gagaagtcac	acgaccatag	60
ggagcttgga	cttggtgggc	gtcacgggtc	tggcagacga	gggtctttcc	aggaacccct	120
tgctagaatc	agccctcata	caagtgtgct	cagagatccc	aggagcgatg	gcatcctccc	180
gaagtcacta	cccccatatg	tctccttggg	cttcttcccc	ctctctttct	ggaacctgac	240
caggcagaac	gcagcaactg	ncagcaacag	cacgcccagg	gagcacccca	atcagagntc	300
cggcc						305

<210> 223

<211> 263

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> n=a,t,g or c

<400> 223

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<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<211> 1334

<212> DNA

<213> Homo sapiens

<400> 228

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<213> Homo sapiens

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 <212> DNA  
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<211> 2088
<212> DNA
<213> Homo sapiens
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 <213> Homo sapiens

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<212> DNA  
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<211> 6661

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<210> 286
<211> 412
<212> DNA
<213> Homo sapiens

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<220>
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<223> n=a,t,g or c

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caagaggctc tcttggttta aaggagccc agcttggnc ngatcagggt ttaaggacac 180
gtgagcacca aattgagcct ttctcagtga tgaggtcaaa aaatgaaagc gcgcaggaag 240
ggttctcccc aggggaattc tggggtgtcc caangtcac cggggccccc cagcttcgg 300
gccatgctgt tctgggtctc agccctcatg gccgtggcaa ttggacagcg tcaacttcct 360
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<210> 287
<211> 263
<212> DNA
<213> Homo sapiens

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<220>
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<223> n=a,t,g or c

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<400> 287
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tgaatgcact cagctgcccc tgtccccccc accctgggtg actggggaag gacaggcaga 180
gcatacctaac aggggagctg agtctttggg aggataggaa aagcccaggg gtcagggnaa 240
accacacaga ccntacangg ggg                                     263

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<210> 288  
 <211> 437  
 <212> DNA  
 <213> Homo sapiens

<400> 288  
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 agacattttc agacttaaaa ataaagtcag tgttacagggt gctggtcagc cttcttactt 120  
 gtacctcaaa cactgggata aaggaggcgg tccaggggcaa tgcagtgatg tctgtcaaga 180  
 cattccccct cccctaaact cagtagcagt tgaggatgac atttcaggct agagagaccc 240  
 aaaatacctc tgttcacact gagagcaagg tggaaagtgc atcagctact gccccaaagt 300  
 agcttcatct tctgattgtg ggctttggag gaacgagaga actggctctt gggcactgtg 360  
 gaggggtaca gctttgccac tcaaataac cttattgtgg gcattcaggg agccagggtc 420  
 cagagctgca gggctgc 437

<210> 289  
 <211> 352  
 <212> DNA  
 <213> Homo sapiens

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 atttacacat ccacaatata agttttacaag gtatctattc atgttaaagt actctataaa 120  
 acagtataga gacacttcac ttcgagggtt actttttatg ccgtaccatt aaaaaagata 180  
 caatctgcgt ttacctttgc acaaattggat aaagcattta aaaattaaat taacaggata 240  
 gagactagat ttaatgttag aaattttcaac ataaatactg attgaactca cattacaaac 300  
 tacaaggaag cacaatgtta caaatgtta tctgggggtca catagagtta ct 352

<210> 290  
 <211> 445  
 <212> DNA  
 <213> Homo sapiens

<400> 290  
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 gaaagttgat ccccagggca gcctttccca ccaaaaaaat caggcccaat ccaggagagt 180  
 ttgccagtag ctccccaggg ttccagggtg tctgccagcc ttctaggaa tctgtggcag 240  
 gcttctaggt gccagtgact caaactcctt tcccacttc ccagttcaac ctggtcactc 300  
 tcatccccac aagttcccaa tctgaatccc attctctgac cattctctgc ttccttggtt 360  
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 ctgggtatgc taacgttcct cgtgc 445

<210> 291  
 <211> 425  
 <212> DNA  
 <213> Homo sapiens

<400> 291  
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 aaaacaatgt tccatttaag gctcttttat acagaaattg ccatcatgac tgatattcaa 120

aatatcttta	gtgttgacag	actcacatgg	taaacataaa	actcctacac	ttattcagta	180
gtgtacactc	aatggaaaac	aaaaaggcat	taataacagc	tatttctttt	aagaagatat	240
gcaggtaaca	ggaatgaaca	ctgaggtact	aggataagtt	gatgacacag	ttaacaaaac	300
ttaattggca	ttccttttag	gatattaaac	ttattacaaa	aagtgtttt	aatgcatagt	360
gttatatccg	tgctgccata	tcactaaaat	aggcttgcca	aggcaggggtg	aggtgtatga	420
atgcg						425

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 <212> DNA  
 <213> Homo sapiens

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agctgatcgc	ggcagctntg	ctcgaaccac	ttgccgttgg	cgcgctgac	aggaccgcgc	240
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<210> 293  
 <211> 461  
 <212> DNA  
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<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400>	293					
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taatattttc	acaaaaaaat	gtaaagggtca	cagaataata	atttcccttc	actgatgatt	180
aacattgctt	tgcagagtct	cagcagcatg	gtcattttta	tggctccaca	ttacccatgca	240
aagaaggact	gctgcattt	tgaataacat	attaaatagc	tgtggcatac	tgctgaaata	300
cacattaaat	agctgtggca	tactgctgaa	atacacatta	aatnagctgt	ggcactactgc	360
tgaataacac	attaaatagc	tgtggcatac	tgctgaaata	cacattaaat	agctgtggca	420
tactgctgaa	atacacatta	aatagctgtg	gcatactgct	n		461

<210> 294  
 <211> 406  
 <212> DNA  
 <213> Homo sapiens

<400> 294  
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gacaggagg ggggatctg ggttgagttc ccactctcgt tatgacctt aacctctcac 180  
tgttcccaag ggctgcacgg agcctgctga gtctccaacc cacctcgtc accgctctga 240  
ccaccgacag cacgagaaac ggatgcggga gttgcctctg ctgcccatct aaggggacgt 300  
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<210> 295  
<211> 5180  
<212> DNA  
<213> Homo sapiens

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<212> DNA  
 <213> Homo sapiens

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<210> 334
<211> 478
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<223> n=a,t,g or c

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gtagtagatg aactttacgt ggtacataag agtatctata cagtttgtgg gctgcatctt 180
gctagaatat attacattat aaaatgcacc atttatttac tctgcatca aacccccaac 240
ttgccccaaag tggaggaacc ctgagacatt tgcagaggag tcagtgtgct aagtaagcag 300
cattcttttac aaatctatga acatcaaggt ctcttggaa cagatgctct gtgaacaatt 360
tataaaactc cctcctgtta gacacttagg ttgantccat ttttaaatca attactgaat 420
aaaacacact ccacgtgtg gatgaaatgc taccttaant tgtcaaagct atcatattt 478

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<210> 335  
 <211> 431  
 <212> DNA  
 <213> Homo sapiens

<400> 335  
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 gaattaggctc agaaggaaga agcaaagaac tactataagc aaggaatagg acacctgctc 180  
 agagggatca gcatttcatac aaaagagtct gaacacacag gtcctgggtg ggaatctgct 240  
 agacagatgc aacagaaaaat gaaagaaact ctacagaatg tacgcaccag gctggaaatt 300  
 ctagagaagg gtcttgccac ttctctgcag aatgatcttc caggaggtgc ccaagttata 360  
 tccagaattt cccaccttaa agacattgtg ttgaaaaatt accagagcct cagtctttta 420  
 ggttcagctc c 431

<210> 336  
 <211> 452  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 336  
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 ggactggtgt tctaacagga ggcagaaaaat gaaggaggcc tggcttaaga ccagacattt 120  
 gaagaaggct ccaggcaggg aaaggaaaagg agaggccagg ccacactgtc cctccctgc 180  
 cccacagtct ccagcaacac aaggcgccca gtggaccgtg aaccatttat ttccaaacta 240  
 taaagaaacc tgctctctga gaaaagacac tgcccaggtg atgaagctcc agcccctgga 300  
 ggtccaaaac ccagtccaaa ctcagtcctt ttagaaagct gctgtgcctt tggaaatgag 360  
 tctcggtgt cagagcctgg gaagtgggtg gaagaaccag cccactcccc tctcctgctg 420  
 cgattccagc gcagtttggg gccagctct gg 452

<210> 337  
 <211> 245  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 337  
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 aagagtgcac gccgggtaaa ttcagggtgg cttttttctc agggctctgga agtgtgagag 120  
 tttctggggc agactttttc cggggccgat ctttggggaaac ggacagaaat tcgggtgcgt 180  
 ctgtggagag aggggtggat ggagcactag aaggcgact gcggacngaa aaaaggcccc 240  
 ccccg 245

<210> 338  
 <211> 480  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 338  
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 acccacttga gagggcttgt tctcaacaaa cctgactcag atgggcccac tttggcttnt 180  
 agtcagattt agagaaaacc cccggctcat ccaatcaatg tgcaatcaat ttctacacca 240  
 tggcagaggt aggaaaagcc agtcacatgt ccaaatgatg agtgaaaatc aaggcatcgt 300  
 ggagccacct cctccagagg gggagccaca atctcaggac cccgaagagc agacattttc 360  
 aagtggctcc ttacatttaa gcaaaatgtg gtctctcat tcgggtctga agcatcattt 420  
 gtgtgtgagc ccggccact ggggacctct ggctgccagg tggagagcct cctggtgcag 480

<210> 339  
 <211> 452  
 <212> DNA  
 <213> Homo sapiens

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 atatattaag agcattatga gaagtctggt gagactgtta cagaaaaaaaa aaataaaagt 180  
 ttctgagtct gataattcca agggatatct ttagaactca ctactggtg tctgtgcaag 240  
 gactttcctt gggggaaaat agattttaca acaggcggaa actttcattg gtctcatgcg 300  
 tgcttttgga tttcattcac ttgacaaaga actaatcttc cgttgatggt ctctggtt 360  
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 ccttcactct ctccctccca ggagccgtcg gg 452

<210> 340  
 <211> 392  
 <212> DNA  
 <213> Homo sapiens

<400> 340  
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 ggctggctgg ggaacgaagg atgggagcct ctcccttagg ccagaaatcc agcagatttc 180  
 agactaagaa gagtttgggt actaaatcta ggtattctgg ctgagtgtat ctgggtgggc 240  
 cagctaaaaa taaacctcat tgaactccag ccccaacca gagaaacatc cagaagagcc 300  
 ttgaattagt gatccaaaac ccagggggaa aggcgacatt ctacccccca gcacctcctt 360  
 cacctcacct caactcctac tctctcggtc tc 392

<210> 341  
 <211> 353  
 <212> DNA

<213> Homo sapiens

<400> 341

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acctagagta	tggaactggg	attgtggacc	ccaagtgtcc	ccagaagagt	cccacctggg	120
actttccagg	tggccacagg	acagaccctg	cctaactctg	tccctcaacc	ttggtgctca	180
ggtcagaagc	ccccatgggt	gacaggcctg	gccctcattc	cagaacagtc	ttgagttaga	240
caagaactag	cctcatagtt	tggtattctta	tctctggccc	aaatcccagg	cttaggctgg	300
aaaggagaat	ctcttaatca	agaggacaga	gatgctgggg	aacacagttc	cca	353

<210> 342

<211> 439

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> n=a,t,g or c

<400> 342

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ctcagcaata	tacatatcat	gctttcctca	ttattattga	tccatcaata	aatatacaaa	120
aaccagagga	agggtgtgct	ctgaaaagtc	aaagtaacaa	taacagtggg	cattgtacag	180
cacaagaatg	aacaatgggc	tattctttga	aaactcaaaa	caaagtattt	acacaaagac	240
atatctataa	cataaagggt	aatggaccat	gttattctta	ttcttaagta	cattttgctt	300
ttccagataa	gtcaaagtgt	tcctctctcc	tactcctctg	atataacagt	attgaatgaa	360
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ggttctgcta	gaaaagccn					439

<210> 343

<211> 521

<212> DNA

<213> Homo sapiens

<400> 343

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agacctccac	aaaagcaatg	cccagggccg	ctgcagccac	cagcagtatg	ttcttcctta	180
gccatattgc	tatagtctcc	acgcagccct	gggtatggat	agtggattcc	ttgaaatcat	240
tcccacagcc	cacagttatg	ttgatgcagc	aagaatcggg	gactctgtcc	ttggccatgc	300
cggggatgtt	ttcccagtct	gtgtagttag	aagctccaca	gcagttatct	tctttctgca	360
atattgtccaa	aatagtggct	gttttgttgt	ctttaaggta	attctggcat	ctgctggctg	420
ggaagctttt	tattaaactc	tgacttcacc	tggtctctaa	acacatagcc	agcaatgggc	480
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<210> 344

<211> 426

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature  
<223> n=a,t,g or c

<400> 344  
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atgcctggaa atgactttta ttaacccaag agtttttaaat ttttggaaant ttgtaagctg 360  
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aaaaaa 426

<210> 345  
<211> 345  
<212> DNA  
<213> Homo sapiens

<400> 345  
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aagtttacia gcatgcgcgg acttgagtgc tcattaggtc gccgggcgtc cacgtgcagc 180  
cctggaccct gaaccccggc gtgcgtgggc cgtgggctcc ggggaaaggc tccgtgcact 240  
cggggactcc ggtgaagcct gttcagccgt ctgtgtatgt gccatcttga gtctactctg 300  
tcgtctcttg gccctagacc ccgagaaccg tagtttagca aatga 345

<210> 346  
<211> 374  
<212> DNA  
<213> Homo sapiens

<400> 346  
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ctgagtaaca gaggggacca cgcagccacc gacagccctt ctctgcggtt gtctgactgg 180  
acacacttcc tgaaatcagg ccgtttccct ccgcgtgcat tggttttggg ctgtctttca 240  
gttctgtttc aaactagtgt aacaccaagc tggctctaat gtatcttttc cacttattgt 300  
taatattctt ataatacgat tttaaaaatc tcgccttttt atattgtatt tatgcttctg 360  
tcttacaatt tttc 374

<210> 347  
<211> 447  
<212> DNA  
<213> Homo sapiens

<400> 347  
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ggccagcccc tggactccag aggccacca tcattgttaa gagacctaca tgcataaacc 120  
aatcacacac gtgctatgag aatagagaaa agaaataagt aattctcaca gacactgaca 180  
aactggaaaa aacttctttc atcccaggta ctttatggct gggatcaaag ggggtgactca 240  
cttgtttgca caggaaacaa aaggcaaaaag gaagtgttgg catcagtttt ccatctgcac 300

atataacccc	cattcctcca	tgaattgcat	gagatagggt	tcattttctc	ctggtggcct	360
gtctggaagc	cgggctctc	atagagtcta	gatagaagac	cctcctctcc	gagcccatcc	420
ccctcagaag	gctcgcaggc	ctctgaa				447

<210> 348  
 <211> 367  
 <212> DNA  
 <213> Homo sapiens

<400> 348						
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ataacctaga	ctgacagctc	acagagcaag	gaggtggcag	agacctgccc	aggtgagctt	180
ggctgttgcc	cccagctcaa	tcttctctct	ctcctctctc	tgtcccttca	cctctgatca	240
gtcccagcct	gattcccgtt	ccctgatgcc	tcaccttctt	gctgccagat	gcctctagga	300
actagggtcc	ttcagactcc	agatgccctg	gcctgggctt	aggacatctt	gacttcccca	360
gtggaca						367

<210> 349  
 <211> 434  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 349						
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cagggcagac	tcccctcgca	gcacagacag	ctgaggcccg	ggtgctgggt	cctctaggta	180
cagcttttgt	ccttgtgggc	tcagaggtct	gcctttcgga	aacttgctct	gttcaaggag	240
ttcctgaggc	cgggtggggg	gggtgccatc	agctggggca	ggcgctgggt	aagcaggggc	300
tgcaganctc	ccgcagcggc	agtagttgcg	ctccagctca	cgggtggtact	ccttctgggc	360
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gaagccctcg	tgcc					434

<210> 350  
 <211> 416  
 <212> DNA  
 <213> Homo sapiens

<400> 350						
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tacaaaagtt	attggattac	tgcaattctc	agaggcacia	aacctgacat	ggtgtgatat	180
agtatataat	cagtcacggg	ggggaaaaga	acattaagtc	tttaaaaagg	cttaggaaga	240
cataaacagt	aaatctttgt	ttttctacct	tcctttggac	agtgttatat	ttcactttct	300
tctttgcaaa	atgtttccaa	attcatttgc	tcaggattta	tttaagataa	taacttaaaa	360
ccactaacag	ttggtttatg	ctatatgcat	atcatgcatg	gttcctactg	ggttcc	416

<210> 351  
 <211> 282  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 351  
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 ctttgccctag tcctccgact cngattcatt ttcattctga ctaatctgga agtaacgaag 180  
 ttcgtagggtc tccttgtcag atgcaaccac tcgaagccaa tcacgaagat tgttcttctt 240  
 aaggatTTTc ttggttaagggt atttcaaata ccttttagag aa 282

<210> 352  
 <211> 515  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 352  
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 aacaaactgt gctttaaata ccaaacaagt aaatcagaaa gcttattttc tatttnnnnt 120  
 atatctaaga cacacttnta taanaagaaa acagaccctc ctaacatgta ncattaccgt 180  
 tcgtggcaat tgttctcaac ctttactctt ccttttgacc ttngcattaa gctcctttgc 240  
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 acgaagccag cctgggacca tagcactgcc tgggnggctc tgtatttgct cccgtggagc 420  
 ttcactcgggg ggtggtncag gctcccaaaa ctcaaggcnt ttcaggctgg tgnctttttt 480  
 gcaaaaaggg gccttgcctt aaggggccagc ccatt 515

<210> 353  
 <211> 292  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 353  
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 tcaatttttac ttcactgtct catcacttga gagactgggt aaggcaagaa acccattttt 180  
 taacattttt tttattttca aacatttgaa aagcaacacc aaaacgtatg cagttaattc 240  
 ctcaattctt tcccttagna tagcactttt taaattacaa aaccacactt ac 292

098367 060501

<210> 354  
<211> 446  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

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ttatttggtt agtaaacagc acttaattaa aaaaaacaat gtaaaagaca tggattttaa 120  
gattaattag aaactattga gcctgagaag catgaaagag aaaagaatcc ttcgtgctgc 180  
caagtcgatc tctaggggag aataactccc acggctgcag cgtatgcagt gcacacagaa 240  
gagggctgct ctgcccagtc catgtgggtg gaagataact ggggggagta ccagaggctg 300  
ctgtccactt ggacactggc cttgagcaac tcagctgctg cagccagagc gccaatgctg 360  
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aacagaccca cggcaagccc tgctga 446

<210> 355  
<211> 454  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 355  
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gtgataaagg gaattataat gctcttaact cttatgtagt atgtttctcat caaaatcacc 180  
aagcatgaga acactgttta gtctcattca tcaactcagca cagcctcttt ctgtccactt 240  
cagggccaag tctttgccat ggccccacat aacgtgtaaa ttagcttcag ggatcaaaaa 300  
tctttgaaaa ccagtttgc tgagccttga aggaagcctt tagaccagc ttcaatgaag 360  
tcacagctcc ctgaggggtcc tgggtggactg gaggcggcct cccaagcctg ggagctgtgt 420  
gcctggatgg tctcactggg gtgatgacnc aagn 454

<210> 356  
<211> 491  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 356  
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gcctccgggc tcttgcttc gggctcacct gagcgggggc gcantgaggc cactgtggga 120



aaacacaacccc	ccactcccag	gagaggcctc	acatgctgcc	ttcgggtctcg	ccagcctttct	180
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ggaagcggaa	ccataggcat	gctgcggccc	cagatgagcg	cggaggggcaa	gcaggtgccg	300
gggnagcgca	cacccacag	ccaagcggcc	cctgcccagc	ctctntaaac	agaccctcac	360
aggtccctcc	tgggcctcag	tcacatccct	nagaaanact	ggcggctctg	cccgagangc	420
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aatgggcctq	a					491

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<210> 357
<211> 177
<212> DNA
<213> Homo sapiens
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<400> 357
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gagggcaagg aaagtttgca taaacgcaga atgtttcagc agctttgggt tcactccatg 120
gctcattttc ttcttaagca tcagncatgg tgaacttqga qqacccaaaa gncatta 177
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ctcccaaatac	gcaagagttt	tcttttcccc	ttccttgttt	ttctttttaa	gtcgattggc			180	
ttttgtctat	cttgctcttt	ccttttcttt	tttgtctctc	ccccgcctgt	gttggggtat			240	
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gactgctcct	tgtcgggtttt	ctctttattc	atctttttca	tcttcacctc	tcgattctga			360	
aaccagattt	tgacctgccg	ctcggtgaga	ttgagaacco	gggccacctc	ataccgacgg			420	
tccttgqтта	aatacatatt	qaagagaaaac	tccttctcca	qtccacqcgт	caggта			476	

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<400> 359
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cccaaaggcg agggacctgg gaatccgagg ggtcccggcc ctggcgggtca cttgccccagc 180
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gcacaggcaq gctcccggcc gcgc

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<210> 360  
 <211> 419  
 <212> DNA  
 <213> Homo sapiens

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 actactgcga ggtggaaaat tgcatagaaga ccctgcaacg tcattcactg aggatcttct 180  
 catccttttc ttttttatct cgtgcccctt gtctatttca aatcatcagg cacattcatt 240  
 taataatttc ccaagcaatt tttaaaaaga cgtttgggag tgtgtaaaag tttagtgact 300  
 ttcacactaa aacttggtgt cagaggtaca tgggtgactat ctccacacag gcagagctgg 360  
 gacccaactt actaacctt cacgtgagaa tcttctattt ttaaggctga aggatggca 419

<210> 361  
 <211> 472  
 <212> DNA  
 <213> Homo sapiens

<400> 361  
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 aacttatcat taatgtgtat acattagcgc cctactgaaa ggaagtacca gtctttgggc 120  
 aaaacttaag agattccttg aggaacctac ggctgaacc ttaaaaaaaaa aatctctaaa 180  
 gaccttacag tctgctgctt taccatttca ttttaattat caacactgga gttgcaattg 240  
 gctaagttgt caactgtatt ttaggagtct accaatgtgg cactcagaat cggagtgacc 300  
 atcagtgacc taaagaggta agattttgtgg aatactttag tccaaaagct ttaaaaaact 360  
 attagaccat atattctatg tttttaaagt gaattatgca taaaagtctg tgcaaactac 420  
 aacatgattg cagtaacatt ctcaagaaaa aaaaaaccct agtatacttt ag 472

<210> 362  
 <211> 314  
 <212> DNA  
 <213> Homo sapiens

<400> 362  
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 gggatggggg ggggttggtga gacaatcaga atggtaaatt gattaaatgc tcctaaccct 180  
 gtaattttgt gcatagagca ccctatgctg tggaaataac tgttcttaga tttcattgta 240  
 actggactgt tcagggtgcc cagaggaata gaacattcct aattctaata aaataaactt 300  
 ttatttttgt attc 314

<210> 363  
 <211> 454  
 <212> DNA  
 <213> Homo sapiens

<400> 363  
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 gtgtccaaca ccaatgtgac aagtacatat atcagaatca ctctttcctc agagaatcac 120  
 acctccctt ggctctgcat gtggatccaa atcaagcctg ggtgtgtctg acaataccag 180

ggcacggttt	gcttcccggc	cctccatctc	tactgtttgg	ctacagcttg	agttcactag	240
gcacggtctc	ccctctcagg	ccagccagca	agttgttagc	tgccaacaag	gacatggtgt	300
tgcggtttct	gtgggtggca	ctgccaatgt	ggggcagaat	cacacagttc	ttcaggggtca	360
ggagaggggtg	gtttgttaggc	agtggttctg	ggctcgtcac	atccagtcca	gcagctgcaa	420
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<210> 364  
 <211> 425  
 <212> DNA  
 <213> Homo sapiens

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taggggctaa	aagcatgtta	atcggcataa aaaggcaatg agatcttagg gcacacagct 180
ccccaccct	cttctgccct	tcatccttct ttcaatcagc agggaccgtg cactctcttg 240
gagccaccac	agaaaacaga	gccctggact catgaacgaa tccatgccag gcaccagtct 300
cagccacagt	cacatccctt	taaactggat ccacacagta agaggactct gaactccct 360
gcagactgcg	aagtcagcct	cattcactgc taagtctcta gcacctggga tggggcctga 420
tgtgt		425

<210> 365  
 <211> 411  
 <212> DNA  
 <213> Homo sapiens

<400>	365	
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tcagtttggga	gatcaagtac	tttatctatc ttgagtgtta tctatcttgg aatttagcca 180
ggcctaaaag	tagcggaagt	gtcaggaaat gctatagaga gccaatctcc agctgcaggt 240
tggtgggcct	ggcactgacc	agatgcgggt agctcaaagc accgagcgat gcaggcgccg 300
tttctgcatt	gcctgcagcc	tcttctgcct ctcggaagag ttgttcttcg ggggtctgctt 360
cagtgcgggc	aggatggcac	gctccgccac aggtgggctc agaagcaggc a 411

<210> 366  
 <211> 261  
 <212> DNA  
 <213> Homo sapiens

<400>	366		
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aaattccaaa	gtcctttctt	tatactgttg gtggacaatc tcagctgggt caataagggc 180	
agggtgttca	gcgagccacg	cagccccctg tatctggatt gtaatgtgaa tctttagggt 240	
aattcctcca	gtgcccttta	a	261

<210> 367  
 <211> 388  
 <212> DNA

<213> Homo sapiens

<400> 367  
caattcctat gtattttatt ttatgcattt aaaaaacatt attctaggcc gggctcagtg 60  
gctcatgcct gtaatcccag cactttggga ttacagggtg gagccacacg cccgggttaa 120  
gaagagttct tgaggctgtg ataagctttt ctcaaattgt ttttaaagcc agctcatttc 180  
ctgtgtgctc atagtatcat agtataatca gtgcactatc ctcatatcct ctaattgaag 240  
gattttttacg gaacatgagg tcttggcaga agccctgcat ttgttctactg ttgttttcca 300  
ggagagatat ttgcagccac tgaggatggt caagcgcatt caccagctct gaaagccctg 360  
acacaggggt tccacataga tgcaggca 388

<210> 368

<211> 591

<212> DNA

<213> Homo sapiens

<400> 368  
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ccgtgcgcca tggtcaccca cagcaagttt cccgcgccg ggatgagccg cccctggac 120  
accagcctgc gcctcaagac cttcagctcc aagagcgagt accagctggt ggtgaacgca 180  
tggcaactgc aggagagcgg cttctactgg agcgcagtga ccggcggcga ggcgaacctg 240  
ctgctcagtg ccgagcccg cggcacgctt tctgatccgc gacactacgg accagcgcca 300  
cttcttcacg ctcagcatca agaccagtc tgggaccaag aacctgcgca tccagtgtga 360  
ggggggcagc ttctctctgc agagcgatcc ccggagcacg cagcccgctg cccgcttcga 420  
ctgcgtgctc aagctgggtg accactacat gccgccccct ggagccccct ccttccccctc 480  
gccacctact gaacctcct ccgaggtgcc cgagcagccg tctgcccagc cactccctgg 540  
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<210> 369

<211> 299

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> n=a,t,g or c

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catcaaaaaca cagcccagag aaagtcaatt cctgtatttc taagacagta ggatccaggc 120  
ttatttggaa gataaaatat ctctggaaga acagatagtg ttaatggatt gantcatttt 180  
cctcaaaaag atataacccc cagaacctca gaacgtgacc ttatttggaa atagagtcac 240  
aacatatgta attagttaaa attagtcacat attggagtag ggtggacact aatccagca 299

<210> 370

<211> 203

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> n=a,t,g or c

<400> 370  
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taatatgcta agnctgtaag ctacgcagca aaaataatga tcttaatgaa gccagaattc 120  
tgtgaaaatg tgcaccacac tgcatatata gtagctgagt aaatgtaaac catgngctta 180  
ttaactcttc tatataaaat att 203

<210> 371  
<211> 545  
<212> DNA  
<213> Homo sapiens

<400> 371  
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tactttttgga agacctgaat tgtaaagatc aaaaattata cacagaaaga cttctgcttt 120  
ggggcaggat gtgataggcc aataactctta cctgaacaaa tggaaaatat taaaaaagtc 180  
attttcagaa gcacctgaga gctgtgaaag caacgaagac taagtgaact aaaattccag 240  
agagagaaaag agagaataat ttogaggatga tctgatgatt gctggctatt tttctctcag 300  
gacattttgt tggttctggg agtactgatg gtttgggctt gaccaggtag agggactctg 360  
ctctgctttt gcagtgggta caggcatctt ttctgatccg ggagtcagaa tgacactacc 420  
agatcactga gcgttgggtct ctaggtgtga ccgtggtaga attgagtcct tggcgatctc 480  
tgattcttca tgtcaacagc ttctgaacca aattctaggg cacactcatc agattagcca 540  
aggct 545

<210> 372  
<211> 332  
<212> DNA  
<213> Homo sapiens

<400> 372  
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caagttatat ttctgcctgg agtacagata tgaaatagca caaactgtac tctgaattaa 120  
gcaaacagaa tgaataaaaa aaaaatattc tcccaacctt agtttccgtt cctcatttcc 180  
acttgcttca gactctttct attgaacata tctagttaaa tctctaattg acggcctgtg 240  
ggaagattta ctgccaacag ggtatgactg acttctttcc ggacactgag caggggactg 300  
tgggctctga agcagtttac ttctgtgga ag 332

<210> 373  
<211> 142  
<212> DNA  
<213> Homo sapiens

<400> 373  
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cagcaagggc tgattctagg ataagcacta gatctccctt aataaactca caactctctg 120  
aaaaaaaaaa aaaaaaaaaa cc 142

<210> 374  
<211> 414

<212> DNA  
 <213> Homo sapiens

<400> 374  
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 gcaactgtcc agccagacct ggggcagctc ctggggaccc tgcccccttc acacacaccc 120  
 atcccatcca tgggtgcctga gaggccttca tcttcagttc cctccaccag atcagttggg 180  
 catgtttgggg gcagagatgg agggttgttg aatcacacta ggctctgtaa gctgagaaga 240  
 cgatcctgca caggggtggcg taacagtctc ctccctgccag ggcacctgca gggcgagaag 300  
 tcacatgcca gactgaggca tgcttgcgaa cactagcctg gccccagcag caggggggtgc 360  
 tggaggagct gcagcttttc cccatcttgc tgaattattg atgggcctgg cact 414

<210> 375  
 <211> 528  
 <212> DNA  
 <213> Homo sapiens

<400> 375  
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 gccttcaact ttatcttcaa ctaccaaagg aagttcagga acttcctcaa tacgatgacc 120  
 ttttagacatg accagtgtcg gtagggtcga ggcagccagg gcagaacaga tggcgatcgc 180  
 tttttgggtt gtgttcactc tacgatgcca acggcgccag gttttgggtg gtgcaaacat 240  
 tcggccttca cgacacatgt ttccaaaagc accctggcca gaacgggtgag tcccacaacc 300  
 tcaaactctg gggaattccg agcacagctc tgccagtacc ccaagactta gcactagtct 360  
 gaagacctgc taattccatg acagcatagg gctgtctggg gtttttgccg aagttgggtg 420  
 gaaccaagtt cacaatatct ggtccaatag gaacctgaa tacagcaggc aaagtggcat 480  
 ttttgccaaa tgacttcccc ttttcggagt tcaccggtat tagttggc 528

<210> 376  
 <211> 207  
 <212> DNA  
 <213> Homo sapiens

<400> 376  
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 agcaatatac caaaaaaaaa aaaaaaaaaa aaagacaaaa aacctcaca taatataaat 120  
 ttttactacta tgaagtacac attggaattt gaatgcagtg gccaggacag cagcttataa 180  
 accaccttat aggtaggtta gcaaccc 207

<210> 377  
 <211> 278  
 <212> DNA  
 <213> Homo sapiens

<400> 377  
 ttttagcactt gaacttctga ctttattatt tttcttcaaa tgaacagggtg ataaaacact 60  
 gtgtccaaag caaaatgcat gactcccttt tctcttcttt cacagagtac cagaaaatgt 120  
 aaacaatatt tagcttgaac ttctgagtc tcatcttttt tttacagcc tttagaacaa 180  
 cattaatttg tttgtttata ctagcatttt acaacataaa aaataaaata agcagactgt 240  
 ctgaggggggt ttatataagg ttttcagatt ctgataca 278

<210> 378  
<211> 183  
<212> DNA  
<213> Homo sapiens

<400> 378  
tcaggggtat gaggctttat tcaggaagag ctcaagatgt gaggggagcc cctgggggtcc 60  
cacatcttgt ggcctcttga taccaaggct catgggacgc taaaacctaa tgactgcagg 120  
catctgagct tccttgaggt catctgtggg gggcacaggg gcagcctcag agtcacccgt 180  
ggg 183

<210> 379  
<211> 438  
<212> DNA  
<213> Homo sapiens

<400> 379  
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ataatgtttt atgtaccaaa gccttttgtc cccattttcc atcatacgaa tagtattccc 120  
tggtgctaag ccgatgatac attacccttt tcccataggt gtgagtggcg gtctgaatgg 180  
agaagttcaa tagttctgat tgcagatcct atgcagaaga gataataagg aaaataatct 240  
ttgtctcctg gattaagctg aggtctggcaa agagtgaat gtcccaagcc ctctaacaac 300  
aaacaacata ctttgtgttg tcctggatgc tgggtctggtt gccaaatatg tggaactggc 360  
cccatatgct tgtactgttg tccatttcat gagagtaggc ttgaggacac catgggcaag 420  
gatctgatgg ttgccagc 438

<210> 380  
<211> 465  
<212> DNA  
<213> Homo sapiens

<400> 380  
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tattagctta tttgattttt agatgttgaa caaaccttga attcctaacc taactgctgt 180  
ggctagaact tcaagtacaa tgctgaatag aagtagtgcc gagtgaacat ccttgtcctt 240  
cttcccaatc ttaaggggaa aacattcagc cttcagtcta tcacatgaa gtataatggt 300  
aggtgtgggc ttttcataga tggtatattt atcatatcta ggaagattcc ttttattcct 360  
aagtttggtg agtggtttta tgaaagagtt ttggatttta tcaaagtctg taataagaca 420  
atctgtgtgg gttttgtgct ttattaaata tggtagagtt gatcc 465

<210> 381  
<211> 418  
<212> DNA  
<213> Homo sapiens

<400> 381  
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gacacgtact gtatgagtaa acagcgtggc taacaccaag tccacactgg taagcttttg 120  
agaaccattt acactatggt gacagtagta ctgctgcagg cagacagcgg aagaataaat 180



aatagtgctt	caagaagagt	agtgattgag	aggataggta	aagagggcgc	ctcatcgtgg	240
aagctagagc	aggaacacct	ccccagtagt	gacatgtgca	aagttccaga	tctccacgac	300
aaagacagct	caacccactg	gaacaaacag	actcccaatg	tggctggcaa	ctgcgggggt	360
agaagaactc	aggcaaagta	ggcacaggaa	tgggggagat	gagagccaag	ggacaaaac	418

<210> 382  
 <211> 359  
 <212> DNA  
 <213> Homo sapiens

<400> 382	
tttaacaaat	tgtattatta
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tgccacagac	gatccacacc
acgcgcacac	acacgctgag
tgtagcttcc	atgcctggaa
aagtacaaaa	gcaataggta
	ggggcagtg
	gataacagga
	aaggttttga
	tgttattgt
	60
	120
	180
	240
	300
	359

<210> 383  
 <211> 398  
 <212> DNA  
 <213> Homo sapiens

<400> 383	
gtattttctaa	aaccattcaa
ctttattaag	aaataccaga
acaaaagtgc	agagatttac
aaaatacttt	ttttctccaa
gggtaaaggc	aggatggtca
ccacctctaa	cccaacctca
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	gctgaatgga
	catgaaga
	60
	120
	180
	240
	300
	360
	398

<210> 384  
 <211> 448  
 <212> DNA  
 <213> Homo sapiens

<400> 384	
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ataggcctaa	atcacttgta
ctagtaataa	gtcttttaat
taattcaata	tccagtatac
gtttatccac	acaaggttta
gcggtggtgc	tcacgcttgt
ctggccctct	ttttcttttc
ttcccctggt	gaaattttga
	tgattgca
	60
	120
	180
	240
	300
	360
	420
	448

<210> 385  
 <211> 490  
 <212> DNA

<213> Homo sapiens

<400> 385

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tgctcgctgc	aaaataaata	aaataccaga	tgctagtatc	gtacactatt	tacaacctgc	120
agctgaccaa	gcaggtcctg	aagccttctc	tgtggaccag	tactgcactc	ttctgaggct	180
acgggagagg	tccagcagcc	gggccaggga	ctaaaaggaa	acgaaggatc	tgttttatgt	240
cgagctcggg	ggcaggctgc	acttctcgca	gatctgaacg	ggcagcatgt	gagtcaagga	300
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cgggtggtct	cccagtcgca	agtccacggg	ccgcgagacc	ccagcatgct	ccgccagcgc	420
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<210> 386

<211> 366

<212> DNA

<213> Homo sapiens

<400> 386

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gaaaaattac	acctggcagc	tgcgtttaag	ccttccccca	tcgtgtactg	cagagttgag	180
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tgggtcttcc	atctagaact	gtttacatga	agataagata	ctcaactgttc	atgaatacac	300
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<210> 387

<211> 412

<212> DNA

<213> Homo sapiens

<400> 387

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agaaagactt	tgaagaggaa	ataatataca	aagtacaata	aacagcaagg	ttacatgtca	180
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ttctctgtat	ccagaaagga	ccgtctctta	aatccaccag	gggaggaaac	agcctcctgt	300
ggaaaatgct	gtcttctcag	gagcattgta	tctgcacgtg	ccaatcacag	ttcctcctcc	360
gttcgcaggt	actgggtaca	gttctgaaat	cttttttcagc	tgagcagcgt	tt	412

<210> 388

<211> 290

<212> DNA

<213> Homo sapiens

<400> 388

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aggatctcct	atggagtgtg	taggtgtcca	cgagtgtacc	gggtgtcggg	cctcctgggc	180
tgcaggcact	caggcatggt	ggcagcattg	agggaaagac	aggtgttggg	gagcggggtc	240

ccacctgccc aggctcagga gtcacagggg tctgcacagt cctttctgct

290

<210> 389  
<211> 255  
<212> DNA  
<213> Homo sapiens

<400> 389  
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aggctgcttc aactctattg ctgcagggc tcattctgca tggatctgtg tttcaggatg 180  
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ctctgtggat gggga 255

<210> 390  
<211> 338  
<212> DNA  
<213> Homo sapiens

<400> 390  
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cctccctctg gctctcactg tccgatgcag attagattta cctgtgtggg caatcctcgt 180  
gtgtacatac atttcagaac tgcctggcctg gaccatgtg aaaaacagtc accatctaca 240  
gcaggggtgt ccaagctttt ggcttcctg ggccacactg aacaactgta ttgcaccaca 300  
cataaaatac actaacatta atgatgactg atgagtta 338

<210> 391  
<211> 448  
<212> DNA  
<213> Homo sapiens

<400> 391  
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tgtaaacat atttagcttg aacttctgag tcctcatctt ttttttaaca gccttttagaa 180  
caacattaat ttgtttgttt atactagcat ttacaacat aaaaaataaa ataagcagac 240  
tgtctgaggg gtttatataa ggttttcaga ttctgataca ggcttgcac tgcacgttt 300  
ttagtctgac aaagagaaac actgctttag gaagtgggtc atgtgggtgt ataagtgggt 360  
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ttgtgcatta accagagctt tagcaatc 448

<210> 392  
<211> 490  
<212> DNA  
<213> Homo sapiens

<400> 392  
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gagtgaatgg						490

<210> 393  
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 <212> DNA  
 <213> Homo sapiens

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aaaataacgt	gtgtctttc					379

<210> 394  
 <211> 380  
 <212> DNA  
 <213> Homo sapiens

<400> 394						
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gtttttgttt	tcttctgtc	ttctaattaa	aaaagacatt	cctgggtgac	aggcacagtg	300
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<210> 395  
 <211> 400  
 <212> DNA  
 <213> Homo sapiens

<400> 395						
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cctctgatcc	agctgcagcc	tcccataaga	agttcactct	taatttcatt	tcccatgctt	180
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gggcactctc	agctgaataa	agtctcccaa	ggaaacactg	aggtagagca	gtctgcaagt	360
gcaaaagcac	accttctgca	gattccctac	aaagtggggt			400

<210> 396  
<211> 354  
<212> DNA  
<213> Homo sapiens

<400> 396  
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gtaattatga agacaccttt acggtgagcg ttattaaaac cctactagag gttttgggtg 180  
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ccttcccat ggccactgcg ctcatcatg agcctagggt gatcaggcct ccgg 354

<210> 397  
<211> 460  
<212> DNA  
<213> Homo sapiens

<400> 397  
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gagaaggggc tgaggagga aaagccagga aactgagatc agcagaggga gccaagcatc 180  
aaaaaacagg agatgctgaa gctgcatga ccagcatcat tttcttaaga gaacattcaa 240  
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tgaaactgtc aattaaagt cttaagattt aggaagtggg ggagcttgga aagttatgag 360  
attacaaaat tcttggaagt ccttatgaaa accccagggt tgaaaaaaaa aagggtccca 420  
agagggctcc gaggtctctg ctgtgcccgg ggcagatacc 460

<210> 398  
<211> 404  
<212> DNA  
<213> Homo sapiens

<400> 398  
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tataggaata catacaatct atatacatat atttattgca aataacttaa attcttatgt 120  
aaaatgattt tctatatattg tgaaaaaata tgacttttta aatgggtgtg acaccaactt 180  
ctctgtacat accctcaatt ccaatgttaa caattccttt aaaaaggcaa aagacacaaa 240  
agtttagcat ttaccaaacc agtctgtaca aaccttacag ccagaaggga aaaaaatagc 300  
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tattgcattt ttctgaaata atctgagtgt ctttagagta actt 404

<210> 399  
<211> 435  
<212> DNA  
<213> Homo sapiens

<400> 399  
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<210> 403  
<211> 372  
<212> DNA  
<213> Homo sapiens

<400> 403  
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acctgttggg tcttggtgtg tgggatgata attcttttgg gtgaggggaa cagccgtggt 180  
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tgtttttact ttcgcaccaa caatacaaca taagtattgg gtacaaaaga ggagatttcc 300  
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tcggttgatg ac 372

<210> 404  
<211> 280  
<212> DNA  
<213> Homo sapiens

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gagcaaagtg ctgggatggc gatgcctggg tggggcagag aagtgtggcc aggggaaggcc 180  
ccctggggcg tggaggtaca ggcaccactt cagaaacaaa aataaaacca aaaattgctc 240  
tccacccctc tgctgtgtct tggggctggg gaagctaccc 280

<210> 405  
<211> 467  
<212> DNA  
<213> Homo sapiens

<400> 405  
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<210> 406  
<211> 448  
<212> DNA  
<213> Homo sapiens

<400> 406  
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gcaatgccca	gcctcatcct	gtaagggaagt	cgggaagtctc	cgctttggaa	actagttagc	360
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<210> 407  
 <211> 308  
 <212> DNA  
 <213> Homo sapiens

<400> 407						
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acaaaatatt	gactgcatgc	ctcgcaaaaca	ccaaaatatc	cgctggaatg	ccatagaaat	180
aaataacttc	tgctataaac	acatgaaaac	atatcaaaact	gttatctctt	taaacatatt	240
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tgaaatgc						308

<210> 408  
 <211> 426  
 <212> DNA  
 <213> Homo sapiens

<400> 408						
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aggtgttcag	atcatcttgt	taagatgcag	agctcaaaat	aaacactaaa	tctttatttg	420
gagatc						426

<210> 409  
 <211> 1201  
 <212> DNA  
 <213> Homo sapiens

<400> 409						
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gggggcgccg cagagcgcggt gcgcgcgaacg gggaccactg tccgctcggg cccggggcggt 660
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<210> 410
<211> 513
<212> DNA
<213> Homo sapiens

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<220>
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<223> n=a,t,g or c

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<400> 410
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<210> 411
<211> 145
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<223> n=a,t,g or c

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<400> 411
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<210> 412
<211> 204
<212> DNA
<213> Homo sapiens

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 caccgcagd tcctaaatcg ggggtgggggt gttcgggtcct tgccgggtcc acgagatcga 180  
 ttcttgacta ctttgctgtg aatt 204

<210> 413  
 <211> 608  
 <212> DNA  
 <213> Homo sapiens

<400> 413  
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 tatectataa ctaaaaagtc aactaaacag ttgggttttag ctagagacaa acatcagtc 180  
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<210> 414  
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 <212> DNA  
 <213> Homo sapiens

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 <213> Homo sapiens

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 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA



<213> Homo sapiens

<400> 452

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<211> 330

<212> DNA

<213> Homo sapiens

<400> 453

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<210> 454

<211> 537

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> n=a,t,g or c

<400> 454

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<211> 465

<212> DNA

<213> Homo sapiens

<400> 455

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<211> 295

<212> DNA

<213> Homo sapiens

<400> 456

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ccgtcctgaa	gccctccctc	ctccatcaag	gctgggggatg	atgaggagat	ggggc	295

<210> 457

<211> 488

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> n=a,t,g or c

<400> 457



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tctttaaggc	agcctaattt	acaagcttgg	ccttgaatta	aaagagaacc	cagaaccgcg	180
tcttgaggtt	tacgttctca	aaccaacatc	agagcaactg	tctatcccc	tataaataaa	240
gttatctacc	cctgctccta	actgggtaca	agttatgact	acaactcagt	gattttttta	300
attagtgtgc	ctatttggtg	aaatctgtga	acttaatcaa			340

<210> 461  
 <211> 470  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400>	461	
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ctcgttccag	gggaggagcc	catttgacat
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ctgggtgggat	gagcaggctt	aacacagagc
ttgtagaata	tattccagag	aagtatccaa
aggtggaact	caagatgatt	ccctgggata
tatattatcc	aggaagcttc	tttgtggagg
ttcaccatga	ctaccattgt	gaggttcagg
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		gtgctgggta
		60
		120
		180
		240
		300
		360
		420
		470

<210> 462  
 <211> 320  
 <212> DNA  
 <213> Homo sapiens

<400>	462	
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taattcacgg	caggtaaaca	tgggtgctca
ccatcagtat	ttccctcaca	ttcccttttg
gagaaatctc	caccgtcacc	gcacaatcca
tcctctcgaa	ggtgcgctca	gccataaaaa
gtgctcttcc	caccgcgaaa	
		60
		120
		180
		240
		300
		320

<210> 463  
 <211> 418  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400>	463	
aaaatcaaaa	cacacgcaaa	aatatattac
tataatttat	atataataaa	attcattatt
aaatgcattc	aatgccatca	ctactacaat
		caagatatag
		aacagctcca
		tactttcaaa
		60
		120
		180

caattttctt	gtgtcttttt	tcatcaattc	ttcctccaac	tcacagcaca	gatctgtttg	240
ctgatcctgt	agttttttaa	atgccatag	gattatatac	agtatgtagc	attttaagtc	300
tgacttcctc	taattaagca	taatgcattt	gatgtaactc	caagttgttg	cangtattgg	360
ggtgctcatt	tctttttatt	actgagtagt	atttccactg	tatgaatata	ccatagtn	418

<210> 464  
 <211> 434  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 464	
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gcctaggtcg	240
tgctgggatt	300
tcaggatcaa	360
tgacaacatc	420
tttatagtgt	434

<210> 465  
 <211> 417  
 <212> DNA  
 <213> Homo sapiens

<400> 465	
ttccagttaa	60
cgaatacaat	120
agatcagcaa	180
aatgaaacca	240
gagagccagt	300
acacttctga	360
aaatataaca	417

<210> 466  
 <211> 374  
 <212> DNA  
 <213> Homo sapiens

<400> 466	
gaatacaatg	60
catcaacaaa	120
taatagctag	180
acagagcatg	240
tctttttacca	300
caagaagata	360
ttccttaaa	374

<210> 467  
 <211> 437  
 <212> DNA  
 <213> Homo sapiens

<400> 467  
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 ggctgtatt acaacctgac tcctcggctc ctggatgcac aggtcagatg ttccaacaac 180  
 ccgacctatg gccagtgtta tggagtcact ccaaagggtg ttgagccctc tgtgaaaatt 240  
 taaatggctg ctaagtcatt ctaaataaat acgtgaacgg attgtttctg cccctaagat 300  
 gaaatccac agatcttatg ctcaagctca ggtcttctca ctgcgcctt cgacatctag 360  
 aaagtatggt gggatcttca ctggatttgt taaccctggg agtgcccctt gtgatccaga 420  
 tgagtcaaaa caaacgg 437

<210> 468  
 <211> 470  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 468  
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 cctcagcctc cctagtagct gggattacag gtgtccacca ccatgcccaa ttaatttttg 180  
 tatttttggg acagacaggg ttccaccatg ttggccagga tggctctgat ctcggtgacc 240  
 ttgtgatccg cctgcctcgg cctcccaaaag tgcctgggatt acaggcgtgc aaccngcccc 300  
 tggactactt atggaggttt taaaaaatct tttaagtcca ggctgacgt ttagagaagg 360  
 ttacaaaggc ggccaggatc tgagtatttc caaaaagctc tggaggcagc attgaggttt 420  
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<210> 469  
 <211> 443  
 <212> DNA  
 <213> Homo sapiens

<400> 469  
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 gagaatgtgt ggggttaggg aggtctagtg ggaggctttt atgggggggtg tgggggggggt 120  
 ggccttttagc agggcagatg gaggaagtgc cttgtgccat aagacacagg aaggggatga 180  
 gggaggatgt ttcccgcca tgatgtactg gggccagctc ctaccggctt gaaagagcca 240  
 attctacaca tctcttccca acttggcatt tagcgtcttc atgttggtag cctgaaattg 300  
 gctaattggtg ggaggctctg caccacggaa attggcaaac actacgaatc agggcttccc 360  
 ccccatcaca cagccagttg ctaaagtctt acaagcacat cactggctgt ctgctttcca 420  
 gcttgtggtg gtttcggta gta 443

<210> 470  
 <211> 427  
 <212> DNA  
 <213> Homo sapiens

<400> 470  
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 cttggctcta ggtacacccc ttccaagcaa tgcaaaggac atctccaatc atgacattta 120  
 agacaattct ttatttctct gacagtgact tcttgaagtg cacatataat aaataaatag 180  
 aaaatatatc tttgttcatg gtgatgccta caagaaatgt ttacatacaa acactctgta 240  
 catctaactc ccgaaaaagg accagctatt tcggcaacag aaaaaagaca agcatttcag 300  
 aggagcgttg cttttcctta aagacctaac tcacttaagt ctttaccaaa cagaaataac 360  
 aagggaggac aattttctaa gcaataagaa aatttgtggc taccaaggaa aatgcctaga 420  
 tattggg 427

<210> 471  
 <211> 436  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 471  
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 atgaacattt taaaatctcg gaatggcttc cttttttcaa agtcatgctt tcttgcggtc 180  
 caaaaggagt tggcacagag gagatggtgg cagcggcggg tgagggtgagt ggaggacagg 240  
 gcttctctca gatccgtgtt agctggtgcc acagactgga tgggaggatg ctctccactt 300  
 ttctccatga caaagttaa gggggcaaac aaagtgtgta ggaaagcntt tgcgaagacc 360  
 ccataaagtt ccgggaactg atgtgtcagg agggccagca tgctgttgaa ggaacataat 420  
 ccagcagtaa agagaa 436

<210> 472  
 <211> 340  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 472  
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 taatttcagc acactgtgta ggaattactc aggtttttcc catcctatag ctcttaaaaa 120  
 accaaagtgg ctaaccatat ctggcataac agaggaagta aggtgcantt ccngantntt 180  
 caaccatcac agaaaaagca cacttaattt gcctctcaag tcgtctggag taaagtctat 240  
 gttgctggca acagtttgtt tatcctgact tctcttcccc aggtccctgg tgggtctgtaa 300  
 cagagatgtg tttgtgaaaa tgctgtcact tggctttctc 340

<210> 473  
 <211> 505  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 473  
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 aggacggcca ccccttggca tcgggtgcag anccccatcc agccgcggtg aggggtggctg 120  
 tcatccggcg ggtcctcacc ctgggtcccta ggcttgcgca agctgatggg tctcatagtc 180  
 ctctgggatg gtgtcattgc agcggtaaca gggttggccc agatgatgtt ctcttgggag 240  
 aagcagaaga ccccaggcg gccacccgc atggttgtgt ccaagaccac gttgctgtcg 300  
 gccaccagct cagggccctc atagaatcgc accctgatgt agcccacttg ggnccgggtg 360  
 ctgcaggaac caacgatagg acttcttgtc cttccaaccc acgtttcgcg ggtccttcca 420  
 cagcagccga acctgggaat ctgtgtctcc tgtatgcaaa gaagcgtttc gaagctgttn 480  
 ccggggcctg tggaanaatt naaag 505

<210> 474  
 <211> 302  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 474  
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 tgggggtggag gcaccgggag gntcggccac gtggcttcat aaagctcagc tgcggttctc 180  
 cgtggccaca gtgactctgc tccgggtacc cagtccccga ctcttggcc tcccaggggc 240  
 catcccgggg gtctcggaag gcacagctcg gttagctttg acttcttggt gtggctgaaa 300  
 ct 302

<210> 475  
 <211> 417  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 475  
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 cctgattgtt tttaaatggc agcaagaaca gggttggaca gcaagggcaa atcacacagt 180  
 atgtggcata ttcagaattg gttgtgagtt tccagtagaa agcactgaga atatccatag 240  
 ggcaaaatgg aatactaata atcctcattt gcctttgcct ttgtactggg aaaccagacc 300



ttactttaag cccaccaaag gcaaggtttg gggcctgcc aagcgggatt tcaaaaagac 360  
aaagcaatgc aagccacgtg ttcaaaatgc ccttaagtgg gctttttcag ggtnttt 417

<210> 476  
<211> 375  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 476  
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agtgggagtt gccacactgc cccaacagtg attccctttc aaagagctgt gcttcctaaa 120  
cattctgggg ggttttgcca gagtcttccc ctgtctcatc ctcatttcca ggacactgtc 180  
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atttttctnc catgt 375

<210> 477  
<211> 272  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 477  
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tgatatcctt tcttccactt gattgataca gctattgata cttttgtttg cttcacgaag 120  
ttctcgtgct gtgtttttca gctccatcgg gtcatttata ttcttctcta aactgggttat 180  
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gaacatgctc cttttagttt gggaggagtt tg 272

<210> 478  
<211> 244  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n=a,t,g or c

<400> 478  
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agtgcattct gggacacggg cgggcggggg ctggcacggg aggacgagag cacctgcagg 120  
gcagcgttg ncgncggnnc gggcgggcgg gcgatgtgtc agctgcagtt cttgggcagg 180  
cggtagacgc cgtccgcagt tagacgagct gctgggtccc caccttcttc tgcaggtagc 240

cctg

244

<210> 479  
 <211> 429  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 479  
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 gctcttgcca ctctattcag catagtgctg ggagttctag acagagcagt taggcaagga 180  
 aaaggaaaac taagggcatc caaattggga aagggaggga aggtaaaatt atctctgttt 240  
 ggccaatgga tatggatttt atatggtatg gaataggaaa acccttaaag gattccnccc 300  
 agggggccngg ggnccggggtg ggcctcacgg cctttttaat tccccagcac tttgggggga 360  
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 cgggggggg 429

<210> 480  
 <211> 284  
 <212> DNA  
 <213> Homo sapiens

<400> 480  
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 agccaagagc tcttcccttt tcccctgtta atttccagta taatgtagca gcacaattat 180  
 ttcattgtcac atttaagaag aacaagaacc aatttatata aaggtacaat tgtatatcct 240  
 taaacattcc acataaacac actgtcaaaa ctactggat atgc 284

<210> 481  
 <211> 371  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 481  
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 ctgaagccag aattgttcta taaaagtatc atggaatatt atacatgatt aaaaaacaga 120  
 gtatgcttcc taataacttg aaatcttttt acaaagcaca ttattcatga tcataaatat 180  
 gtttggttctg tcatcccacc gatgatacac acatcaggca agcagctaata ttgaacatat 240  
 gtacagagtc tatgataaag atttaaagtt accaaaaaga ttcaggctat aacatattaa 300  
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[illegible]

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<220>
<221> misc_feature
<223> n=a,t,g or c
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[illegible]

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<210> 484
<211> 364
<212> DNA
<213> Homo sapiens
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[illegible]

457

<213> Homo sapiens

<220>

<221> misc\_feature

<223> n=a,t,g or c

<400> 485

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aggttaactat	tttcaaactt	aatagtagag	tcaagcaaga	ntggacaatt	agagtttnca	180
aanttgaaaa	ntattatgta	ttttatataa	tcattaccta	tggtttacag	attttatttt	240
tatgatacat	atctctaagg	taggtgggta	cactgaggac	ataggcaant	atgccataa	300
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<210> 486

<211> 534

<212> DNA

<213> Homo sapiens

<400> 486

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gacaagagct	acaatgtcac	ctccgtcctg	tttaggaaaa	agaagtgtga	ctactggatc	240
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accaaggagc	tgacttcgga	actaaaggag	aacttcaccc	gcttctccaa	atctctgggc	480
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<210> 487

<211> 3118

<212> DNA

<213> Homo sapiens

<400> 487

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<223> n=a,t,g or c
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ac	120							
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ac	180							
ctgcata	cacc	atggtgt	gag	gagcag	caac	gtgggt	caac	tngggg
ct	240							

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<220>  
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<223> n=a,t,g or c

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<211> 421

<212> DNA

<213> Homo sapiens

<220>

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<223> n=a,t,g or c

<400> 495

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<211> 413

<212> DNA

<213> Homo sapiens

<220>

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<223> n=a,t,g or c

<400> 496

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 tctnactaa 429

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<212> DNA

<213> Homo sapiens

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<210> 503

<211> 2066

<212> DNA

<213> Homo sapiens

<400> 503

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 <211> 450  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

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attgtgcctt	tagccttcta	tatacatcag	tggaaactta	agatgcagta	attatgttcc	180
agattgacca	tgaataaaat	atTTTTTaat	ctaaatgtag	agaagttggg	attaaaagca	240
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taatcccagc	acttttgagg	gctgaggcgg	gtggattgct	tgaggccagg	agttccgaga	360
ccaagcctgg	cccaaccgtg	gtgaaacact	ggtcccttac	taaaatacca	aaaaaataag	420
ggctggggcg	ccgttgctca	cgctgtaan				450

<210> 505  
 <211> 560  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

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agcattggtg cactagactc tgtaaaaatt tttcagtcac acttttggtt tttaaacttg      180
agtcaatata aaccttggtc aaaatgttat gaaaaaatgt acatgtttat acaaggcagg      240
ttgtggcagg acactagggg ttctccccac ttgggtggcc ccaggaggag aggtctggagt      300
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cagcgccctg ccccttagtg agtgtactca caccctattt ccctggggaa gcagntagtt      420
gacctnnggc atttncccca canccctggn ggannggagn caggntcagn caggncctct      480
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<210> 506
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<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> n=a,t,g or c

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<400> 506
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tgtaactata agcagcttcg gaaaggagcc aatgaggcca ccaaaaccct caacaggggc      180
atctctgagt tcatcgtgat ggntgcagac gccgagccac tggagatcat tctgcacctg      240
ccgntggtgt gtgaagacaa gaatgtgccc tacgtgtttt ngggctccaa gcaggccctg      300
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tcgcaggttg aaaacaggag atccaatcca ttcaggaggg cattgaaagg ntcttaggct      420
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gnttaccagg                                     490

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<210> 507
<211> 560
<212> DNA
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<220>
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<223> n=a,t,g or c

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tgtcacttcc catcatggaa ccactcatgg ttgctggtgg aacgccagga ttagnttcat      300
aacctatgcc accaccacct cctagagggt gaaatttctg gcctcctgaa ccatagggat      360
ctcccatgtt catngntcct ccgcccacca ttcgggtgta actttcctct cttggggggc      420
tcattnggnt cttccatctc acgggggacg aatcatcatc tnttccctct tcttctacgg      480

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<212> DNA  
<213> Homo sapiens

<400> 508  
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aggatgctga ataaaagcat aggactgtc ctcttttagcc ttaggaaaat aaataatgca 180  
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gcgg 244

<210> 509  
<211> 400  
<212> DNA  
<213> Homo sapiens

<400> 509  
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gcataaatta ctccactggg cgccaggcac gccccttgct cttggggcat tatcactggg 180  
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gccaaagccct tccctgtgca ctggcgggca tgagggaagg atgggaggca gtgtgtgtgt 360  
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<210> 510  
<211> 276  
<212> DNA  
<213> Homo sapiens

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ctaaccacca cccaagcagc ttccctcaca catgcccttt gttttcttcc tctcttctat 180  
ggttccttag ggaaaggagc cttcttttag gatgaaaagc taactacagc ccagtctggc 240  
ctccagcagc ccagggtcag ctcagcctcc actgga 276

<210> 511  
<211> 327  
<212> DNA  
<213> Homo sapiens

<400> 511  
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cagacagacc ccagaccct caagccatct ggttttcatg aggatgaccc cttcttctat 180

gatgaacaca	ccctccggaa	acgggggctg	ttggtcgcag	ctgtgetgtt	catcacaggc	240
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<210> 512  
 <211> 406  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400>	512					
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<210> 513  
 <211> 7258  
 <212> DNA  
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<212> DNA

<213> Homo sapiens

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cagcattgca	tacatggatg	aggagactgg	caacctgaaa	aaggctgtca	ttctacaggg	4020
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aaaagaagga	ttgatcagag	cattgtgcaa	tacagtttca	tttaactcctt	ccccgcctcc	4440
cccaaaaatt	tgaatttttt	tttcaacact	cttacacctg	ttatggaaaa	tgtcaacctt	4500
tgtaaagaaa	ccaaaataaa	aattgaaaaa	taaaaaccat	aaacatttgc	accacttgtg	4560
gcttttgaat	atcttccaca	gagggaagtt	taaaacccaa	acttccaaag	gtttaaacta	4620
cctcaaaaaca	ctttcccatg	agtgtgatcc	acattgttag	gtgctgacct	agacagagat	4680
gaactgaggt	ccttgttttg	ttttgttcat	aatacaagg	tgctaattaa	tagtatttca	4740
gatacttgaa	gaatgttgat	ggtgctagaa	gaatttgaga	agaaatactc	ctgtattgag	4800
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tcccaattaa	aagtatgcag	attatttgcc	caaagttgtc	ctcttcttca	gattcagcat	4920
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gggcaagcag	aaaaattaaa	ttgtacctat	tttgtatatg	tgagatgttt	aaataaattg	5040
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<210> 523  
 <211> 434  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 523  
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 ttgcatttttc cacatgaaaa aaaatcacag taggcacata ctagaagcaa aatatgtcag 120  
 acaaaaaatat cctaaagatg tttctgttat caaactttta caatttttcc aagacgtttt 180  
 tgagggtttgg gaaaaagtct ggggnatttt tggcaaaaaa caaacacact ctatccatgt 240  
 gagttttgac tattgttctt tctcaccaaa aatgtccata attttctaca aattccatga 300  
 agtttttaaat caatcatgtt tgatttacat ttaccaagaa tgatttgccc atcaccataa 360  
 aaattganntt aaaaatacat caggctaaat aaatccaaaa gngaacagtg aattttgttg 420  
 ggtttacaga cagt 434

<210> 524  
 <211> 403  
 <212> DNA  
 <213> Homo sapiens

<400> 524  
 caaataatta ctgttttata ttgggacagt acatttcaga tttcaaccaa aagacaaaaa 60  
 tgcagtttaa ctcaaaggca caacaattga aacacagaaa ataatggcat ctcttggatg 120  
 ccttattttct aaattaaaca aagaagtaca caaattttgt tcccttcctt cccccagtgc 180  
 aagcccacaa gctttttcca aagtcttgag cttttgatgc tgtcccgcgt tgtggacttg 240  
 tgaggcgctt ggatgtagca atgaaacaaa atgcttgaga ggtctagtga atggcattca 300  
 aaagggacct caaagtgcag acatatcttt ttcaaattat gttacaggct gaactggctc 360  
 tttgaacact atcactctgc ttaaatccag gaagcaggct tta 403

<210> 525  
 <211> 453  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 525  
 ttttttatat acacagcatt tttattaaat atactctgtg agaaaaagaa caccctaaag 60  
 tgccagattt catgtaaatc caataactta gtaaatacaa tggtgaaaaa aaatcngagg 120  
 gaaacataat ttaaataatc ttataaaaga gcaagaacat atcttaatct taagaaaaca 180  
 atcatcaaaa tataaaaggg aaagaaatct cttttgtaga agaatatatt tcaaattcca 240  
 cctgttgatc atttcattta aaaaattcta ttctaaacac atgggcagtc tctcttacca 300

atatatatat	ttaaataaat	gggtagaaag	ggaatttaga	ctactcattc	acactgagat	360
aaagtgcacat	ttttgttgca	caacagtatt	gctcactggg	cactaacagt	gggaagatgg	420
agaaaagtaga	tttctgggat	tcaattgggt	agc			453

<210> 526  
 <211> 264  
 <212> DNA  
 <213> Homo sapiens

<400>	526					
tttttttttt	tttttttttt	aaaatgggaa	ggttttattaa	ggttttttcct	caagaggaac	60
agccaatctc	ttgcttccttg	agagaagcaa	ttagtgggaa	atgtatgtca	caccttgggc	120
ccagaaccac	aggaggccgc	ttctcagcat	gcccacgaa	catacatcat	ccccattcc	180
catttaaagc	tcattaatgt	ctacaaaaca	gaatccacgt	tgctttccca	gaaaacagaa	240
ctaggaaccc	agtcaaagcc	tcca				264

<210> 527  
 <211> 484  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400>	527					
atttaaaaaa	tcatttttact	tattaaaact	ttctcatttc	ccaaggcact	tcagtagctt	60
tcacaaaaaac	atgtttgttc	ttttttaacc	aggtgaggca	tatgcttttag	gagtaccatg	120
gtaacataat	cagcaaagag	aagacaatta	cactgaacac	aaaatatcac	ccaataaagt	180
tacaggacta	aagtgaagta	ctctgaaaga	ctatgaacac	aatttaaatt	tcttttttgt	240
aatatcctcc	catgactaag	tatcaagaaa	ggaacacaca	caatgacact	gttttttgga	300
cttagagaag	tgctagaggc	tagggctggt	aaggccttgc	accagtggca	gctgcagaca	360
attgccagag	tgattctgtt	ttaaaaaaa	aaaaaaaaga	cacaaaccag	gaggctaagg	420
aaccagcctt	tcccaagtgc	attctgaagg	gccaatnacc	aggagaanag	ggtncaccac	480
catt						484

<210> 528  
 <211> 456  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400>	528					
tggcggtggt	gaaatcaacg	tgcttccttta	ttttttaaac	tagataggct	cattctactg	60
tcttctccag	ggctcttcta	tgaacaggtt	acaaacctac	ggccaggcca	ggcagtggct	120
cacacctgta	atcccagcac	tttggaatgc	tggggcagga	ggatcacttg	aggtcaggag	180

ctcgagacca	gcctggagta	tagggagacc	cccgccccc	cccgccatct	ctacataaaa	240
tttaaacatt	agccagggtt	ggtggcctgt	gcctgtagtc	ccagctactc	aggaggctga	300
gatgggagga	tccgcttgag	cctgggagtt	caaagctgca	gtgagccatg	attgcaacat	360
tgcacttcca	gcctgggcga	cggagcgaag	accctgtctc	aaaaaataaa	aaccaaaaacc	420
tactgncagt	ttccccaggg	cttcatgcct	cagcgn			456

<210> 529  
 <211> 337  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 529	
tttttttttt	tttcaaaaacc agcaaaaata aaattttaatt gggctcaagt ctgggcagtt 60
tgctccttcct	caggaccagc cgtcagcagt ccctgacgaa agcaccccat tctctccaca 120
gacagctggg	tccagaagga ccctctgagg ctggtcttcc gggtaggatg tgctgtggga 180
gggttctgtt	tccgaggagg agaggcgcga cacagcgtgc aaggacctgc agcaccttcc 240
acgcagcacc	ccctgtctcct cctcctcagc ccctgcgggg ctctgactcc taagtcaggc 300
aggagcttct	tcaggcccct gggntgagga agagcca 337

<210> 530  
 <211> 364  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 530	
ctatgtcaga	gctagtgatt tcaaaagggt tcaacaattcc ccaagacaaa agtgattttc 60
gttcattata	ataagggttaa gtgatatgtg attcatagca attttgatgt gaagaaggga 120
aggacatcat	tgacttaata atagtatcag tgggtgcaac agttggcaac atgtgccttc 180
acactttacc	ataaagagac gggtttgagg gtttgccctc taaagtctgc aacttcaaga 240
aaaaaaatcg	acactgtgga ttgactttcc cggtcactat ataaagcaaa taaacttaaa 300
acactttgta	accatgtatt tactctgcc ggtgcctata ttccaatana atgttcatcc 360
ttga	

<210> 531  
 <211> 280  
 <212> DNA  
 <213> Homo sapiens

<400> 531	
tttagctttg	aaatgcattt attttctgat tattggaatt catccttcat gaaattttta 60
gagtagtggt	ttaaattaag ctccagagtg taactgcaac caaatagcaa tacatacaag 120

tggtttttcca	ttcaaatttta	caaaagcatt	atattattagt	aataaaaaata	tagaaggaat	180
tcagtttttcc	ttttatcccc	aatTTTTttgc	ttttaaaaga	ccattttacta	acatcctact	240
gtagatatatt	cgagagacag	atgaaaataa	taataataaa			280

<210> 532  
 <211> 402  
 <212> DNA  
 <213> Homo sapiens

<400> 532	
ctgtgagact	gtccttttatt
ctccccagtc	ctcccccaag
ctgaccagag	aggcatggag
accaccctt	cccctccacc
ggcagcaggc	atttcccagg
ggggctttttc	ctatgactcc
ccttagagag	gtagaatgag
	gtgtatacag
	gttccagcgt
	ggcccagagt
	ggaggaggct
	ctgcttctgt
	gttaaggctg
	ctatgactcc
	gggaaatact
	cctcagtgcc
	ca
	60
	120
	180
	240
	300
	360
	402

<210> 533  
 <211> 413  
 <212> DNA  
 <213> Homo sapiens

<400> 533	
ataggtaaaa	tttttatttta
gacataaata	aacttgagca
atatttgtgt	gtgtgtgttaa
cagaatactc	ccgtcctttg
atgctccaat	cgctcctttc
ccttctccct	tccaatgtga
tgtgctcaca	gagagacatc
	tgaatgtgtg
	aaagtttcaa
	ggcctcttgg
	aaatttccat
	atcttgtgca
	tggttgttga
	ccactgacct
	agccactggg
	tttgatcca
	gctagaggat
	aacagtgcc
	taagagcaca
	ctcacatgcc
	acttatcttt
	tcatttggct
	ata
	60
	120
	180
	240
	300
	360
	413

<210> 534  
 <211> 392  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 534	
gactacaacc	agtgttttatt
cacatgttaa	atatataata
aagtantngc	atggcaggta
tttgacagag	aggttgtgtt
aatttcagcc	aaagagcaac
ttctgttaat	actaagggaa
cgttttttctt	ctctgacaaa
	tgtttgaaat
	tc
	60
	120
	180
	240
	300
	360
	392

<210> 535  
 <211> 337  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 535  
 ttaagaatttt ccacccacaa ttttattatt actgaaagca tttggaatga agcaaaggat 60  
 ttaacaatat atataaaaaat atacatTTTT taaaaaatcg caagtagaca atagatttat 120  
 ggaattatttt ttctgatcat ccagaaaaga tagcaatagt aaactgcagt tgggtngaga 180  
 ccagccactg ngTccatgag acctaagcag ccctaacgct gcctgagctc tcaagagtag 240  
 aagaaatgct cgacaaacag aaggaggctg tgggagggca gcaggacagc cccaccagaa 300  
 aaccagagcc caaatgggnt ggggcagggc caggggc 337

<210> 536  
 <211> 498  
 <212> DNA  
 <213> Homo sapiens

<400> 536  
 gaagcaagga gctaggaccc ccagtccctgc cccccaggag cacaagcagg gtccccctcag 60  
 tcaaggcagt gggatgggcg gctgaggaac ggggcaggca aggtcactgc tcagtcacgt 120  
 ccacggggga cgagccgtgg gttctgctga gtaggtggag ctcatgtctt tctccaagct 180  
 tggaactgtt ttgaaagata acacagaggg aaaggagag ccacctggta cttgtccacc 240  
 ctgcctcctc tgttctgaaa ttccatcccc ctgagcttag gggaatgcac ctttttccct 300  
 ttctttctca cttttgcatg tttttactga tcattcgata tgctaaccgt tctcagccct 360  
 gagccttgga gaggagggct gtaacgcctt cagtcagtct ctggggatga aactcttaaa 420  
 tgctttgtat attttctcaa ttagatctct tttcagaagt gtctatagaa caataaaaaat 480  
 cttttacttc tgaaaaaa 498

<210> 537  
 <211> 97  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 537  
 ttttnttttt tttttttaac ttttgaattc cgtatTTTT aatgggtctat ggtctacaaa 60  
 cactcatgtg caaacacata cagcagaat agggatc 97

<210> 538  
 <211> 267



<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 538  
accgagtata ttctgtttat tgtttatgat ttacacagaa aatgatgggc tggggttata 60  
gaacaataaaa ccaaccatta catttagacc tgggcttttg aaaaacttgc attccatttt 120  
aacaattcgt atgtatctaa caaatacata aatccagatc acaaataatc ttaagagtta 180  
aacaattaag aaacacaaag aataccacat agatctacct ttaaatatca gcattcatat 240  
tataagagat aagaaaatgt tanaaag 267

<210> 539  
<211> 519  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 539  
aaccacanaa gagtagcagt ccattttctg gaagngcgca tgatattatg ancaatacaa 60  
atgcattatt tttatcatta atagtntaat cattaattat cncanaagtc aatgcagaga 120  
gtgaaattan tntgaattaa acttcngttc anaatgtaca gtattttgca tatgtngact 180  
ttacttaatn gtncattntt gtttccaaag ttaangttaa atacctgggtg cataggttgt 240  
tgtcaagcaa ttactctcat tgtcttgta tacatgctaa cattttgcta aatataaatc 300  
tacaagtatc acagctgcat atattttctga agtggttaga acagaggagg atgctggaaa 360  
gttgagttct ttaaaatctt cgttcaaaac aagagatttt catctatgtc ctcttcttta 420  
attccaaagc agtggnccca ctcttcagg gtgatgtgct tatccttntt ggggtcacac 480  
tcntcaaat aaacgggtta tgccagtgtt ccattgggcc 519

<210> 540  
<211> 359  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 540  
gaagctttta tcaactttta ttgatataat natnntnggt atgcantatg tcntgcaaca 60  
aatgtggata caatgacatc anntatcaaa gaattttccc acctttccat ctttaaatga 120  
cttcagctaa cttaccccaa gagaaaaatc tggcattgat ctcttggtta gcattattac 180  
caatatcaac tagcactatt aaaatcaaag ttgaaatggg acattcattt gccaaaaaaa 240  
aaaaaaagaa aaaaaagggt taaaggcaaa gaaggtgaat caacgtgcaa attagcatct 300

ggcccaattg caaaattcat ttcttgggat gtgagggatt gaaccatgca cacttggca 359

<210> 541  
<211> 328  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 541  
tttttttttt tgtttaaaat catttattat tatcaggagt gccttttagg tggaccgctc 60  
tgtatgactc tcatgcttca aaactatttt ttattcaagt gacttacaat ggccctagga 120  
aacaagttct gttattatcc cccattttta aatgatgaaa atggacaaaag caaaagcaag 180  
caacttaacc aatacccccatt ggccctcacag ccttttagaat agtcatatta tataaatatg 240  
gcaataacaa tgcnctgaaa atgtctccaa aacaaactct acatttttaa aaatgtataa 300  
caggaatcta aggaaggggt cttacttc 328

<210> 542  
<211> 358  
<212> DNA  
<213> Homo sapiens

<400> 542  
tatctgcttt ttgtgtgtag ttccaaaactg ccagtatttt tccttttgc tttaaaatag 60  
ttacaatatt ttcatgata gccacagtat tgccacagtt tattataata aagggttttt 120  
atttgattta ggcgattcaa agcttttttc taccattttt gtgttcagaa tataaccttt 180  
gtgtgcgtgt atgttgtgtg tgtgcatgtg tggcgatat gtgtgttaca ggttaatgcc 240  
ttcttgggaat tgtgttaatg ttctcttggg ttattatgcc atcagaatgg taaatgagaa 300  
cactacaact gtagtcagct cacaattttt aaataaagga taccacagtg caaaaaaa 358

<210> 543  
<211> 425  
<212> DNA  
<213> Homo sapiens

<400> 543  
tttttttttt ttaaaagcaa gaataatctt ttttcttgg aaacacattt gtaaaaatgc 60  
tatcaataag atgaaaagat tcagaacaca tttatttgta tgcagcacat aactgagca 120  
tcagaacgct tgctaaaatg gaatacacct gtaaacaaat gccttaggga gagtttatag 180  
gtagtcagct ccactgtgca aggtatgcag ctgatacctt cttgctgaat agatttttgc 240  
agtagccaaa aaagatcaga ttttagtaat aaaatatctc aaaggatgtc aaacattttt 300  
tagagggcct aacatgggca aaattacaat tacatataca aaaatggcac aagaatcaac 360  
tgatttcaca gaaatactaa taaaacattt cagggtctat tattaagaga aaaaaatgtt 420  
tgact 425

<210> 544  
<211> 430

<212> DNA  
<213> Homo sapiens

<400> 544  
gaacaaacag catgcactgt ggtatccttt atttaaaaat tgtgagctga ctacagttgt 60  
agtgttctca ttaccattc tgatggcata ataaaccaag agaacattaa cacaattcca 120  
agaaggcatt aacctgtaac acacatatac gccacacatg cacacacaca acatacacgc 180  
acacaaaggt tatattctga acacaaaagt gatagaaaaa agctttgaat gcgctaaatc 240  
aaataaaaac cctttattat aataaaactgt ggcaatactg tggctatcat gaaaaatatt 300  
gtaactattt taaaagcaaa aggaaaaata ctggcagttt gaaactagca gcaaaaagca 360  
gataaaaata gaatggaaga taacataaga ctaatatcaa aattctaattg ttgatactgt 420  
gtaggattgc 430

<210> 545  
<211> 616  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 545  
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cctgggcagg ggagggccgg agcaggtngc aggcgtcagg cttaggacag ggaagggggc 120  
tcaggatggg gaagggctct caggacaggg gaaggggctc agaagagagc agggggctta 180  
ggacaggaag gggcactcag gacggggcag ggaaggtgtg gggggcagtc gccacctggg 240  
taggaagcag tgggtgtttg gacaggaggg gctggctctc cagtgaacca ggtggacacc 300  
ccaggcctga ctcacggctt tttggggaca tagtgggtga tccagtccaa gtagtaggtg 360  
acacgggtgt agatgccagg ccggttgggc tgggcacagc tncgntccca gctgaccacg 420  
cccgcctgta gccaggtgcc attcaccttg cacaccaggg gccctccaga gttcgccctg 480  
gcatgagtcc ctccggtgtt cccggcacac agcatgtcgt tcacggatga tgccgacgtc 540  
gtctcccgtg taggcgccaa agtgggtatt gcgtcacaaa tgtgggtttcc attatgggga 600  
ccttcactgc ttcagg 616

<210> 546  
<211> 428  
<212> DNA  
<213> Homo sapiens

<400> 546  
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tgattccttt agctctaaat ggatacatat gtgccccgca gacagtatac acgcagggat 120  
gtgactgagc cacagtgaca tagcaaacc c aacagctggc ttgtgaagcc atcgtgatcc 180  
caacaagggtc tatgttagca attggtgaaa gaagaagaga gtgagatggg acccagggtg 240  
gcctggaggt gggatcctgt gggttttcag agcaccacc agtgctccct tggtagaccc 300  
agcaccacct ggaagtggag ggaagctggg tcgctgctgg aaggagaga ggctgactct 360  
ctacccctca cctctgcaag gaactgaggc ctgtaggggt gcggctgtca ctggctaaca 420  
gtctgtt 428

<210> 547  
 <211> 436  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 547  
 aaaattagaa agtgggtttat ttgcaattta catggattcc tctactttgt gaggttttagt 60  
 ataattgaaa tgtattgcaa ttttcaggaa cattacctac aaattgatat taggtggtct 120  
 acagcttgta attgatgtgc ttcatagata agatggcagt aatgatgttt taaatattct 180  
 agtgcctcact ggatttcatt tttgcaggca atttgcagct cctctgagta aaacatttat 240  
 attcaattac agagtctgat aaataggatt cccgccaccc cacccttctt aatcactgca 300  
 gagtattaat aagtgccttc ttatggctga tttcttgagc ggagcaaaga taagattata 360  
 gccaaatttc tttcaaaacc tcagcagcat ctccttctgg gtagccattt agatattttc 420  
 ttccacctct ttgact 436

<210> 548  
 <211> 454  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 548  
 tatatgggaa catactgttt attcaataag aaattaattt tttatcggtg gatttgaata 60  
 aattttcttc tcccaagcaa tctgattggc agtacaccat tgcagcatat actttattat 120  
 tatcatcatt attattttcc acaacattta ataccaagtt tccttctctc acatagaata 180  
 ttacccaata gaagtctcca aaagggggcca tagcacattc ataacaaaga tagaaaagaa 240  
 aactttcaat gtctgctttc caatatgatg attcaactaa aacaaagctg aatttctcag 300  
 ctatgaaact gaaaaaatga aaatcagccc atgtgtacat cacggccagc catgatcatt 360  
 aacacctcca tgganatgag gggagaaaag agagaaacaa ctgcttcctt cttacccaaa 420  
 cttctaatat tagcttcaaa ttactttaaa aaaa 454

<210> 549  
 <211> 436  
 <212> DNA  
 <213> Homo sapiens

<400> 549  
 tacttttagtg ttgatcagtt tattagtatt tttccaaacc tgaagaatgg tgaaagtttg 60  
 tggtagcagtg tggggaaaac agtaagtgtg gctttgggca agccacttcc cttctatggc 120  
 tctcagtttt cccatctgca caatgagggg gttggagtgt gtggtctcta aggcactgaa 180  
 tttcagtcctg ttctccatcc atcagtggat atgtgagatg caatgcaggg gtgctggcct 240  
 gtccctggta atgagcgagg atatgagcaa agcagttagt acagcctgga attccagcta 300  
 ctgaggaggc tgaggtagca gaatcacttt gaacttggga ggctgaggtt tcagttagct 360  
 gagatctggc cactgcactc cagcctgggc gacagagtga gactctgtct caaaaaaagg 420  
 attctacgac tatgat 436

<210> 550

<211> 421  
 <212> DNA  
 <213> Homo sapiens

<400> 550  
 ctcacatctt tttaatcatt catattgact taatcagggt gacaaaatct cagggttggt 60  
 ctgggatcat tcacaaatca gaattactca gagaaatttt cacagcagtt gcagcagcac 120  
 aaactctaac gctgatttaa attaataact gttattaatg aacaaacttg aaaaaggaat 180  
 ttcatataga acattacatt tctccctgac actaccgtat cataaaaaatt aaaaatgata 240  
 taaacatgtt ttaaagtcatt agtggtagaa ccagccacac tacagtgcgg cattgttaga 300  
 agttcgtctt caagttgact cagcttagta aagcaaattg ttctctgaga tttcagcttt 360  
 ggtagtcct ctttggctga catgaacatt atggagtgtt aactggtggt agcaacacat 420  
 a 421

<210> 551  
 <211> 427  
 <212> DNA  
 <213> Homo sapiens

<400> 551  
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 aaaagacaaa aatcaaaaaca cacaacacag aaaagcacia cactcaagac cagtgcacac 120  
 ccttcccaac ccacttccca gggttttaaa ccttgattac agatcccaa ggattagact 180  
 gtatcggaga ggtcacagta ttgaatcaga aaaagaagac atgtttttaa aggtctgtac 240  
 acaggtagtg gtgtgtgggg tgggggatgt acacttcac actccaacat caaaaaacat 300  
 gatgcaaaaa ggatttcagc gatgaccaca gatttctaga accctaccac gtatgctagc 360  
 cccctcccc atccactttt aaaagttgct tttaaaaagg ataaaaagtg cacagacact 420  
 ttcgtaa 427

<210> 552  
 <211> 391  
 <212> DNA  
 <213> Homo sapiens

<400> 552  
 tttttttttt tttcaagtaa aaacttaaaa cgtttatttc tggtagaaat gataaatact 60  
 ttgcattaaa aatctggaat tcaagttttc ctctgacttc atgtccctc cctgccccag 120  
 aaccttacia aaatatttct gtctagagag ggaaagagct ggtgcctgct ctggaggcaa 180  
 cgtccaggtc cgggaaaggc actcgtgggc tgtgatctgt ctcatgatg ggaggtctcc 240  
 actcgcacca caggcagcct cggggccaga gatgagaata tgctgtaac cagtacaggg 300  
 gctgcgtcgt ggggtcccaa cagctccttc tttggggata gtgagccct gttggggagt 360  
 aggaagggac tgaggggccc tccctcgtg c 391

<210> 553  
 <211> 114  
 <212> DNA  
 <213> Homo sapiens

<400> 553  
 gacaatactc aaagaatatt tattgttgac gcttttttcc ttatatttaa cattttgaga 60  
 taaaggctaa atgagtgtat ttgtgtgcgt atacaagtac aatcaatgta gggg 114

<210> 554  
 <211> 325  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 554  
 gttcctaaca caaatgtgaa tttattgggt gatttgatat ttaaaatagt actttttacaa 60  
 aatcatctca gaaaatatac tacattttatt aaaattccta caaaccattg cagaaaaatat 120  
 taaacctctt aaccaacctt acactcgctt tcnnnggncc ctggatgatga ttttcacagc 180  
 ttccatagtt gcaaagaaca aagaaatcat cttccaacag gggatggaatt agataagaat 240  
 aatccaaaan atattttattt ctttacagac tcacagattg cttggatggt taggggctct 300  
 taccctagga taccctaatt attca 325

<210> 555  
 <211> 579  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 555  
 ctgtcaccca ggctagagtg cagtggcatg accttggctt actgcaacct ccgcctcctg 60  
 ggttcaagcg attccagaag agagaattct tagagtcaga gggaggagta gaaggaaaaa 120  
 gatattttaa aagctatgct tcaagaggac atttcatgct gtcaaaatga gactgtgaat 180  
 cagaaagtgc tcgggggaact gcaaggtgct ctcaactagg ggtcgggttcc ttctcagtca 240  
 tggcactgac tcatctccac aggggttctca cctgcgggag gaaaatggag gagttgcgcc 300  
 tgtcagaaac tgtctgtgtg attcggggaa gaatatggag tatcttagta gcattccatt 360  
 attacttgcc cctaaataca tgatgccagc cccctgcaca gataacctcc tggcttttat 420  
 agctgaaata tatttgatct aaaccacgat ttgacatctc agagagagag aagtagataa 480  
 aagtctccat tccaggttgg cagtagggat cctgcagaag tggctgaaat gaatttgggc 540  
 caacagagaa taagttctac agtcatttgt tcngccaat 579

<210> 556  
 <211> 379  
 <212> DNA  
 <213> Homo sapiens

<400> 556  
 attactatac catttatttg atgaattaat caatgttcaa atggaagagg ttttgacaat 60  
 gtcactatgt ttgatgttta tacctgccct gaatgcttgc tcagaagaga aacagatttc 120  
 ccagtatttt ttataactta ctttcccatt gtcttcaatt aatttgctat tatcccaagt 180  
 agacagacaa cttcagtagt agccatctcc ctacattttt agatcactga aaaaaatgga 240

tgagcaaccc	atgaaaataa	ctagcttact	gaaatgcttg	tcttttaaag	aaaagttggg	300
attattttaa	aaaaaaaaatg	gccaggacc	agttagctag	gagatctggg	agagagaagt	360
cattgccttg	gttctgaca					379

<210> 557  
 <211> 427  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400>	557					
tttttttttt	tcttcccttg	naenataaat	ttttattggc	aggtcaggan	aagagcnngg	60
ggtaagggtc	ccttccttnc	catccctcta	cncanaagac	accctccana	gganagnaga	120
agccccagag	cctgctgcct	cagaggacct	tggaggcaga	caaattgttg	tagtgatctt	180
cctgtccctc	gagcaggtcg	cggttaggtg	gcaatctcct	gctccagccg	cgacttgatg	240
tccatgagcc	gctgggtactc	ctgattctgc	cgctcactat	cagctcgcac	atcgcccagc	300
tgggttcaat	accgctgata	agcgctgga	tatgcgccag	tgggctccaa	agcgcgctc	360
cgtttctgcc	agtgtgtctt	ccaaggcagc	tttcatgctc	agctgntgac	tgcagctcaa	420
tctcaag						427

<210> 558  
 <211> 424  
 <212> DNA  
 <213> Homo sapiens

<400>	558					
ggcagctcac	tccaggttta	tttcagggca	gtttgggggt	gggggacaaa	gacccccctc	60
cagctcctaa	actgggtcac	ttttctccca	ggtgaagggg	accatcctca	tgggatccta	120
tcatgtgag	agctttgtgt	ccaccaggtg	tggctgggtg	caccaaggtg	aagggtttga	180
gggctgcaca	gggaccccc	gcaactggag	tttgccctcc	tccctcagac	tggatggttt	240
cccagggttg	gaaaggggca	ggtctccctc	ctcagcttgg	gacttctcag	agggaggagc	300
tgagtgtctc	ctccctcaga	cccgcagccc	ctcaaggtgc	tgcgatctgt	gccaccctct	360
ttgaccggtc	cctctgccct	cagactagcg	gaacaaaatt	acacctgaaa	gtggaggagc	420
gggt						424

<210> 559  
 <211> 432  
 <212> DNA  
 <213> Homo sapiens

<400>	559					
acattgtaac	aggtttatgc	attttgaagt	gccttctaca	catccaccca	gaggctctgc	60
tgatttcact	tatgccagg	ctataaaatg	cctttctctc	atccccagt	agagcactgg	120
gatcaccact	aggcctagg	ggcatatcaa	gggtttaata	gactggggga	atgggcaaca	180
gaactggcta	ccttagaggc	tctggaatgc	ccccaccca	tccaccacc	aatggaagga	240
aagtcaggca	tgcctaaaag	gagtgggtccc	tatctagccc	caagtctgga	gcagaaaggg	300
caggtccatt	ctggcccaag	tgacattggt	aagatcctgt	cccctcccc	aatcactgct	360

gcttgccagg gtgcctcttc acagttccca tgtggcagca gtagtggcag aggcagaagt 420  
ggacttattg ta 432

<210> 560  
<211> 411  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 560  
gagagtctca ctttgggaatc agaattggaa tcacattctg tttatcaagc cataatgtaa 60  
ggacagaata atacaatatt aagtccaaat ccaacctcct gtcagtggag cagttatgtt 120  
ttatactcta cagatttttac aaataatgag gctgttcctt gaaaatgtgt tgttgctgtg 180  
tcctggagga gacatgagtt ccgagatgac ccaatctgcc tttgaatctg gaggaaatag 240  
gcagaaacaa aatgactgta gaacttattc tctgtaggcc aaatttcatt tcagccactt 300  
ctgcaggatc cctactgccca acctggaatg gagactttta tctacttctc tctctctgaa 360  
gatgtcaaat cgtggttttag atcaaatata tttcaagcta tnagagcngg a 411

<210> 561  
<211> 374  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 561  
ttaagacaaa cataaccttt attctctctc aaaaaccagc agaacagggc ctggaaccat 60  
attcgttaat ttaaccagaa tcagaatact ttaactttca tagtctcatt taaaatttta 120  
tagcaatata ctgaccattc taaaaataac aaaatacatg ttgctctcaa ctacatagtt 180  
aaaaaaggta gtaaattctc ttacccaaaa tagaggaggg gtgggctagt gagctgctca 240  
aacatttgta acaataaaaa atgtatctat atacatataa tgatcatgtt ttcatagcct 300  
aaaatcacca ttaacaaaat ctaataataa aattgtgtcg tgttcaggag ttgggaagcc 360  
aacacattaa attn 374

<210> 562  
<211> 479  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c



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<400> 562
atcatcataa aaaatattta ttataaaaaa ttatcacatt tctctgtaca tagcataaag      60
acaaaaaacac aatgtatata ttaataaatt aagtgggcct gagtattcag tatccatcta      120
ctagaatcct aaagctcttc cccagatttc acaaaggcca atgtagatta tttctatttt      180
atcaaagttc atttgcacag ttggtgtaat tgagatacta acatttcttt tttctagtgt      240
tttaaagata gttcacagta tttgagttaa ttaattaatc aactgattta aatctttggg      300
aaatacaagt atttacctgt aaaaatgttt agctcaaatt tcagtaaaaa actggaaatg      360
accaataacc tactgccaac tgttttggtg taatccagaa atgcatgagc cggactccca      420
ccattaagaa atggcactgt cnaggacctc ngatgataaa actggaatcc ncaaaaaat      479

```

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<210> 563
<211> 156
<212> DNA
<213> Homo sapiens

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<400> 563
tttttttttg caaatTTTTaa cacaagattt tattaaagac gggcaaattg gtgaggcata      60
cctgaatttc tggagatata caaatgcgtg aggctggcat catatgcaaa tgtggcttta      120
caaattgggt ttattttcta gctgtattta aagagg                                156

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<210> 564
<211> 108
<212> DNA
<213> Homo sapiens

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```

<400> 564
tttttttttt tttacttttt aagctttttt attcttgaaa agttcaaaga tatacaaaga      60
tagactatgc aggataatga gccccacat actccgcac tcttgtct                                108

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<210> 565
<211> 213
<212> DNA
<213> Homo sapiens

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```

<400> 565
tggacatctc agatgtgact cttgctgcca ggctagaatt taggctatgt gataattctc      60
agctgtccta caatgcctgc ttcttgaaag aagtcggcac tttctagaat agctaaataa      120
cctgggctta ttttaaagaa ctattttag ctcagattgg ttttcctatg gctaaaataa      180
gtgcttcttg tgaaaattaa ataaaacagt taa                                213

```

```

<210> 566
<211> 559
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<223> n=a,t,g or c

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<400> 566  
 tacaatgtgc atttttattcc atatcattat ncaatgttta catatagtta anactctcaa 60  
 ganaacgtcc ttaccagtt gtatgtggtg tctaaatctt taacatgaag gactgaaaag 120  
 ggtggaaatc cacactgatt gttatcctac agattgtcat gagctgcacg tgncaatca 180  
 ganaggaatg gaagtctcag aagagcagcg tggcttacag acccttggct ttagtgaatt 240  
 caggcatgcg ggatccatag tctcatcttg taggtaaaac tcaagacaaa nataantt 300  
 ntgttggaca gagttcntac attggtacaa tgnttnaaca aaaagaccca caggggganc 360  
 cttttngttc aaagtnggc ccaattccac acctgattgt ggtntccaac attnaacctt 420  
 cctgtttgnc tccancattg ggcccttttg aaagggaaact tctcctgcnt tagntgaggg 480  
 attcccangn tnantaagcc cactggtngt ttgctaaann cncctacaan gtnttggcgg 540  
 catnaacccg ggaaantgg 559

<210> 567  
 <211> 433  
 <212> DNA  
 <213> Homo sapiens

<400> 567  
 ttttaaaaaac aaagccatga aaaagattcc actttatattt atttattatt gttattgtta 60  
 tttttacaaa caatagattt gctgcaacat gctctggctc atattattga attaaaaaat 120  
 ttaacacatt tcaaaaatat caaaaatata ctataatgag tcttaagact acaatacgac 180  
 aatgattgca caaaaccgta agatatgagc ccactgtctg gatgacatcc attggcaaca 240  
 gtgagagaaa accctatagc atctgggaga agtgcattgaa atttagaata caaggaactt 300  
 atgtgtgact gactgatcac caaatgaggg aaacagagca ggattgactg tagctgcttt 360  
 ttctcaatct aggaagtgtc taccccaact atggggcaaa agtcactaac tgggaaagat 420  
 taacttgctt tca 433

<210> 568  
 <211> 394  
 <212> DNA  
 <213> Homo sapiens

<400> 568  
 ttagcatagt catcttagct ttattgagta aggcattcca atctctgcta agattcttct 60  
 aaatgaacgg ctgatttttc tgccaaacta tgcattggctc aaagagaaat caccacctgg 120  
 ccaccccatc ctgtccccct acaggacact aagggttctt acagataaag ggacgatgca 180  
 ttcattgctg gagaactaat cacacctgat ttctctggga tctaaaataa tgtcaaattt 240  
 gattcacttt atgtaaagaa aatctttttt ttctgcaaac cccttcagaa caatgctgcc 300  
 atccatgcaa gatgtgtgta aggccacctc tgtatactaa gaatggtgcc ccagcaggtg 360  
 gaaggatggc acacctgctg agcgtgggca cacg 394

<210> 569  
 <211> 325  
 <212> DNA  
 <213> Homo sapiens

<400> 569  
 gaggtggaat gcgtgtgttt atgtaggtag aaaaagtgc cagaacagtg aggggtgcagg 60  
 gagcaaggac gtccctggcct ggcctccgat tgcgtggaat tgcaaggacc ctccccagt 120  
 aagggggctc cctcaagggt ggggaatagag tggaggcccg cacgggagtt cttgtctgtg 180  
 tgcaatccac tttgtgggcg tgtgggttta ggtctggctg ggccgtttct gaacttgacc 240

cctgagaact	catagtacct	taggggcggg	gctctccagt	gggtggggcc	tcccgcctctg	300
agagcaaggc	ctcgggggtct	ggagg				325

<210> 570  
 <211> 498  
 <212> DNA  
 <213> Homo sapiens

<400> 570						
gaagcagttc	tctttataaa	gtgttatttt	gatagtttgt	ggattctaaa	atatatatat	60
atztatataa	acaccatata	agtcaaatat	gtatttaaca	aagcaatatg	tattcattca	120
ctttcaagat	ttgttttggg	gtcaaaataa	catgaaaagg	tagatggagt	tgcttctgtt	180
gaattagctc	tgccaccaat	atgtatcttc	atacacgttt	ggaaatgttt	cctgcagcat	240
taggtatgac	ttgttctgag	tactgcttcc	gggtgctaaaa	tgaacaaaga	atgtgtactt	300
aatggcatgg	actctggaga	atctatgcga	atcaaccttt	ctaccttaat	atctccccaa	360
aaatgtatag	tgctttgttt	ttatgtacag	tttatataca	gaaaagtttg	ctctgcattt	420
ttgatgtaca	gtttatatac	agaaaagttt	gctctgcatt	tttgatgatg	gtttggaaca	480
ttatctacaa	ttttactc					498

<210> 571  
 <211> 456  
 <212> DNA  
 <213> Homo sapiens

<400> 571						
aaatacttta	gaagatcata	cttttcaaag	attttactaa	atcatttttt	taaacaaaat	60
atacattaaa	tctcagattt	acagaatata	gaaataattt	atccaaagaa	atttgcattt	120
aaaattgtta	atattgcacc	caacagtatg	tctttgacac	atttgcattg	tcaatctttc	180
ccacaatttg	caaaaacagg	agagaaatct	gaaactaaca	gaattacaca	agctaagttt	240
tctgtaaaaa	aagaaaaaac	ttacaatttt	ttatttataa	gttaaggaaa	agttgtaaac	300
gttcaggatt	ttacttccac	agaataaaaa	gccatacatt	cttttatcat	acctagaaaa	360
tgaacatata	cacattgtga	ttacctcata	ggaattcaac	aggactgata	ttgtgaacat	420
tcacagccca	atggtaaaaa	acagaattct	cgaact			456

<210> 572  
 <211> 382  
 <212> DNA  
 <213> Homo sapiens

<400> 572						
acaattttaat	aattttattac	attacagtgg	catcacacca	gcagtcaata	aggccactct	60
agggaaaaaat	ctttcagtat	ttccatgaca	cattctgttt	acaataattc	ataaactggg	120
aaaattcatt	ctaagaaaaac	ttggcaaatg	aaactttgga	ctggaattgg	catttctttc	180
tctgcttttc	gttcccacca	tttctttctt	ttatactaca	gtattcatat	tttaaaatgt	240
tttaaattat	ttcagaacat	taagatagca	gttacatttt	ttaatagtta	tattatttta	300
aatgactct	ttaaaataaa	gttttagaga	aactatatta	tggatagggc	tgatttacat	360
tttcaaattt	tctaaaatca	gc				382

<210> 573  
 <211> 262

<212> DNA  
 <213> Homo sapiens

<400> 573  
 gcagttttaa atgattttaat tgacaaattc ttgtgattta catttcagta atcaactgca 60  
 aaagtgagga agtaattcat gggcctgtag tgcttttgaa aataatattt atgactcata 120  
 aaaatgtaca ttcataatag tatgacatgg acatatttta agaaagttca agcatataca 180  
 agcattgttt aatctcacia aatatattaa ttatgttggg aatatgtgca ttataaaagg 240  
 gtcttttagtt taccaaaggg tt 262

<210> 574  
 <211> 398  
 <212> DNA  
 <213> Homo sapiens

<400> 574  
 tttttttttt cttatccatt gaaggtaact taattttgca gttattgatt aattaaaaaa 60  
 cacagttgtt ttcagcattt cctagctaca gtagtgcata ggaaattcca ttctaataca 120  
 agaagtaatt aatgaaataa caacacacct taacatttta cattgatagg ttacagttta 180  
 caaggtgctt tcacatacat tatttcattt gattottaca acaagcagaa aaaacagtgg 240  
 gaaagatttt ttttttcagg cttacaatga gtattttcag gccaatgggc agttaacaca 300  
 agaataatcc aagaatgaga cagcaatacc cataagccac aatatcgttt ttggtaggtt 360  
 gacagtttga ttcaactggg tattcagcat cgggtgagt 398

<210> 575  
 <211> 376  
 <212> DNA  
 <213> Homo sapiens

<400> 575  
 gttggaagca gccgcccaca cgtcctaac tctgctgcat ggcagatgcc taggtggaaa 60  
 tagcaaaaac aaggcccagg ctggggcagg ggcagtagtg tgaaggccct ggattctcac 120  
 tcatgtgaga tcttgaatct ctttctttgt tctgtttgtt tagttagtat catctggtaa 180  
 aatagttaaa aaacaacaaa aaactctgta tctgtttcta gcatgtgctg cattgactct 240  
 attaatacaca tttcaaattc accctacatt cctctctctt tcaactagcct ctctgaaggt 300  
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 gccacagggc cactgt 376

<210> 576  
 <211> 342  
 <212> DNA  
 <213> Homo sapiens

<400> 576  
 aaaatttaag aaatctacct ctttatttaa caccaaagct aacatcaagt gtttatttaa 60  
 aaaaaataatg gcacctgctt tggattcatt gatgacacca caatggggtg aagatctaca 120  
 gggaatttac aatttttaggc tgacatgaaa ctaagtagta actcacaaaa tggaaattct 180  
 gcaacaagcc tcacaataaa catttccagt ttctactttc agagttgcta actactgcct 240  
 aaacatatct taaacacaga gcacgttttg ttgaaatatt tctcttagga caaacacagt 300  
 agacatgctt taaataaatt aaaattgcaa cacataaatc at 342

<210> 577  
<211> 302  
<212> DNA  
<213> Homo sapiens

<400> 577  
gactgaaaac tactttatatt gaagacattt ttttctatag ttctaaacac aaaaggaatg 60  
ctgttatagt gggatatttca taggcattct tgtattcaaa tgaatcacat aatgtttaca 120  
cttttaagct acacttgaaa ttgaagactt aatacaacct tttaacaaag aaagtatcag 180  
tcatatcaaa acataactat tcattctaca gattatcact ttccctaaaa tgactactag 240  
atatgaaaac attgcaggga cagctcaagt gccccattct taagggtttt ttttaatagg 300  
aa 302

<210> 578  
<211> 410  
<212> DNA  
<213> Homo sapiens

<400> 578  
cccagctttt caaaagttta ttttaagttt ggagactaga caaggtcata ctggttttac 60  
atcctacgtg atataagtat atatacaaaag aaaaaaacia cattggaata ttacacagct 120  
tgaaggtttg caaaggttat ttgtgtctta gttattttctg cacttaatga cacatcagac 180  
gcattgagta tatttcataa gttgttgact agcaaagata caatcattag taacccaagt 240  
cttcaaaatt cacaccaaac tttatgaagt cattcagaaa gagaaagtca atcctaaaat 300  
taaaattggc aactatgata aataccttca aaaggatgta gatgtaatgg agatgtttta 360  
aagtttagtt tcattaattg taaaattagc atgttatatt tactcaatat 410

<210> 579  
<211> 376  
<212> DNA  
<213> Homo sapiens

<400> 579  
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agtgtcattg ccgccctctc ctcccaccta gtgcattaat agtggatggg agcatctgac 120  
agaagtgaga tcaggcagtg ggtgtctgca cccacacagc catgttggct ggaacagcaa 180  
agtctatctg ctgagggtta ggcaagttca ggttgcccat gattttgaca aactcctcac 240  
agctgagggg gagccgaggg ttccagagtc tctcctctc cacgggtggac actgtgaacc 300  
catggtaatc gtgagcaggg tagatcagac agtctcctgg aagtgtgaag atcttttcat 360  
ggaccgagtg gtaaaag 376

<210> 580  
<211> 275  
<212> DNA  
<213> Homo sapiens

<400> 580  
accataaaca aataaaattc tttattttaa tttctcttgt ggggaaaata tttttcttta 60  
aagcacactt aaaagtaatt tgcattttact tcctgtaaag catttccatt tcacaattag 120  
caaaactaaa aggctatgtc tcttcatgca tttatttttg ttagaaaaat gtcccatggt 180

gctatcaaac cgattttaac catcatcaag cttaactttg cctctgttga caacatgact 240  
 acaaacatga atcaaaaagg agttaaggaa tttta 275

<210> 581  
 <211> 435  
 <212> DNA  
 <213> Homo sapiens

<400> 581  
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 tcataagttt tcttttttcc tccaaccatt taaaaatgta aacattagtc ttagcttgca 120  
 ggcagcacia aagcgggtgg tagaccaaata gtggaccag ggtgtagttt gccaaaccct 180  
 tttattagat caccaaagt acttttctta aaataccttc tatttttcac agaaggata 240  
 aatggtaaac aacatcttaa agcatcggta gtagtgata ccttgacat cactgtcact 300  
 ctcttaccgg gtttaatttt gcatggctgg tgtggcgta attgagtgt catgtagagc 360  
 atctttataa tattaccatc agcacatttg gtacttgac ccttgtagtt ctaggaaaag 420  
 tcctaaaaat ctata 435

<210> 582  
 <211> 425  
 <212> DNA  
 <213> Homo sapiens

<400> 582  
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 agtttaaaat gaaatgacaa atacattgac atgtcaagtg tcatttttta tgggtattatg 120  
 cttattcaag gtgtgaagat acagaacctc tttataaatt tctggcatca aagattccca 180  
 ccgtagataa aaacaggttg gttataaaat gtcaattcat taaatattca atttttgttc 240  
 tttgttttta taaggaatat tttgtagaaa cagtataaaa tagagtagac ttttggaat 300  
 tgaattataa aatttttagaa aaaagtgtta agtcctaact tttctttgag aaccaacaag 360  
 agagtctagt tttaccttgg ggagttacct gtgaagtgca ttaggcggct agagctgttt 420  
 cagag 425

<210> 583  
 <211> 392  
 <212> DNA  
 <213> Homo sapiens

<400> 583  
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 aggagcgttt tgctcttttg ttttcttccg ttagagttag agattttttg ctgttgggtga 120  
 aggcccttga agactgtagt ttaaattcaa ctggaaagtg gtcgctgaca tccagggcct 180  
 ctttttcagt cagcttgtaa gctttctgga agtcaaaaac actgtttgac ttgggaacaa 240  
 cagaactgac gatttcttgt cctctaagca caatcctgtc atatgcacag ttggtgctct 300  
 tcttcaccgt ggtgtcctct tgggtcccgga tcagccaaac aaacctgggg tcagtcctca 360  
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<210> 584  
 <211> 353  
 <212> DNA

<213> Homo sapiens

<400> 584

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ataagagtct	gtccaacccg	acaagttcca	gaccccaccc	tgccctcaca	tcaggctctt	120
ccggtactga	ctgtgcgggg	tggctctgtc	gagggtggag	tccgggggtc	gcagggtccat	180
ctgtctgtac	aggtctctca	gtccctgac	ctcctgcagc	accctctttg	cctgggtcca	240
attcgatgat	gcctctccca	gcagccgttc	cgtctccagc	agcagctgct	ctgactcaga	300
atccggcgga	gaccgagggg	ggtccttggc	ctttcgttcc	ccatctccca	gtc	353

<210> 585

<211> 460

<212> DNA

<213> Homo sapiens

<400> 585

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ggagcagttc	acatagagta	gaatgtggaa	tttcccgtga	acgtctcctt	cctccccctg	120
atctgccgcc	tgtcacttcg	ccaccgtgct	agaataactgt	tgtgttgtaa	gatgactaat	180
tttaaaagaa	cctgccctga	aaagtcttta	gaaacgcaat	gaaagggagg	aacttgctct	240
ttaccagatt	tttcctttgt	aggatgggaa	agtataaaaa	ggcacagaag	gttgtcatgg	300
gctgttcctt	gggggttttt	atcctgctca	ccgtggagat	aagcctgcgc	tatgtctaac	360
cagcgcacgc	caaaggtctc	aatgcctttt	ggtaacatcc	gtcattgcag	aagaaagttt	420
acacgacgtc	aaaagtgacg	ttcatgctaa	gtgtttttcc			460

<210> 586

<211> 491

<212> DNA

<213> Homo sapiens

<400> 586

tttttttgaa	ggacaggggt	acgagtttat	ttcttggtgc	ctccaagagc	tcatggaaaa	60
gcagcacagt	gagcaacaag	caacagtggg	cagtaaagt	atatgactca	acacattgcc	120
acagtctcag	cttggctgtg	tggtagatgc	tgccaagggg	cgggtgccaa	gagagagcag	180
aatgaagcca	ggcccccaag	gaagtgaggg	cccaaaatag	ggagtgtggg	tgatgagggg	240
ggagttcaaa	tccagatgtc	agagctacaa	tgcccccag	ggtagcggac	gtcatgggca	300
agggctgggc	taaggggctc	cttcccgaag	tccaccagga	agttgggggt	caacttcagc	360
cctcctttta	ctgtgtctac	atcaacctgc	agcatcacag	agccttcctt	gatgagatca	420
gggtaaaact	gcttgtccca	ggcactgtac	agcgacgtgg	tgatgtagag	gcgcttccca	480
tccaggctga	g					491

<210> 587

<211> 257

<212> DNA

<213> Homo sapiens

<400> 587

aaatgtaata	agaagtttat	tggattttcta	aatataataa	agtagttgca	actctttttac	60
agaaaaaaga	aatataattt	ccatattcat	tcttatagag	cattgaaaaa	acataattgg	120
tagagaaaaac	tgatagaagg	taaatagaaa	aacagggtttt	aatatagtca	gataatgcat	180
aaacacaaaa	gaaaatacct	aatcacttg	cttataacag	attttattct	cttatttttca	240

tactgaacta tgtgtgc

257

<210> 588  
<211> 313  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 588  
cgttaccatc gtccgtgcgc accgcccggc gtccagattt ggcaattntt cgctgaagtc 60  
atcatgagct ttttccaact cctgatgaaa aggaaggaac tcattccctt ggtggtgttc 120  
atgactgtgg cggcgggtgg agcctcatct ttcgctgtgt attctctttg gaaaaccgat 180  
gtgacacctg atcgaaaaaa aaatccagaa ccttgggaaa ctgtggaccc tactgtacct 240  
caaaagctta taacaatcaa ccaacaatgg aaaccattg aagagttgca aaatgtccaa 300  
agggtgacca aat 313

<210> 589  
<211> 299  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 589  
gcaggccaaa accntagttt atttcagcat cagcagtatc ttagccatca aaaaaataaa 60  
ctntaccaag ggtgacggaa gtntctacag caaggntaag ggctcgccag acggcgaaca 120  
tcaggggtgc atgggtggga ctgcccaggc aataagtnag gaagcagcag ggctggtntc 180  
gggtgtgggc cgggcttnat ttctgggcag gcatgaggtc gtcgatggcc tggccctgct 240  
ccagccgctg ctccatctcg atgagcagct tcactccgtc caccaccatc ttgcaccag 299

<210> 590  
<211> 413  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 590  
attttaagga ctataaagag tttgatttaa aattatgcag ggcccctatg tgggattttt 60  
taaaaagcaa actggtgtgt attctcatgt ggtttgcaca gccagcctc acagcactat 120  
tgtaaaccct gctctttctg tctcgctaga cagatttttt tgtttgtttt cttttttctg 180



gttggtttttt	gttggttggtg	ttggttggttt	acagctgaaa	ccaaccagca	agcccttgat	240
gaccaagagg	cgtttctttc	aaagctatag	ggcacaaaac	attgaccata	gatgactccg	300
tttgcatctt	tctgcagaat	tatttccttc	agggacagat	tttccaacct	aaggaactac	360
ctaccngtg	tattctcttt	gacgggggag	agatgaacce	ttcagctggt	tag	413

<210> 591  
 <211> 174  
 <212> DNA  
 <213> Homo sapiens

<400> 591	
tttttttttta	atataaaaag atcaatgaaa aattttattta taaatttttc acgctgggct 60
acaggtcaat	atcgtagact caggaatgtg ctgcacaaac tttatccagt tagcagtgat 120
caccccgtag	cccacacaca gcttcgatat aagcctagaa agtcttaaca ttaa 174

<210> 592  
 <211> 286  
 <212> DNA  
 <213> Homo sapiens

<400> 592	
ttcttttttc	agtttaattc catttattat tctttaagga tacatacatg gagataaagt 60
gatgaaagag	aagaaggcta tgggtcaacac aaagttagct acaggggttc cctctatcag 120
acagggatag	agatagggtc agcaaacccg acacggtagc tcaggggaaa ggcaataagg 180
tgggtggtag	gcacacaggg gtttggttat tgtcattatt attactcttt atacttttagc 240
atatatatta	tatgtgtata tacatatcta tattccattg catgta 286

<210> 593  
 <211> 340  
 <212> DNA  
 <213> Homo sapiens

<400> 593	
tttgtttaaa	atcaaatctt tattcaaaag atagtcaagg ctgacaactt atgcagtctg 60
tgacaaagag	caagtcaagc caaggaaaaa gctctcaca agaacgtagc tctgttctct 120
taaaatgtgt	aactgttttc ctggtagagc aaaatttctt gaaaggggac cagttgagac 180
tttaagcagc	gtttaaacag cctgcctccg tgtccagcat ttaaatacag acaagagaat 240
cggctgcctg	tgggcctgcc tgagcctcag cctagcttgg agtctgaggg tccaaggagg 300
cctgtgtgta	taagccatcc catggtcacc ctctggaca 340

<210> 594  
 <211> 404  
 <212> DNA  
 <213> Homo sapiens

<400> 594	
tttttttaggg	agagtaaagt tattttatta aatcatgcac gtcacgtgtg ttagtgcaaa 60
tagtttaatc	tgtactccag aaattctatt gtactttata tctttacaaa atagatttaa 120
aacaattatt	tactttaaaa aatgtaattc tgaagttaag catttcagaa caatatttgc 180
aataacctat	atacaagagg tactgggtac actggcatat tagcattctg tgggtggagt 240

gcttcctgca	acagaaaatg	atgaaatgaa	ctatatgaca	gtatttttcta	caagtcattt	300
gtgactaatt	cctccataaa	tctagtgatc	ttcccaaaag	caatctcaaa	tagcttaaaa	360
tataaccttt	aaagtataaa	cagtgactgc	caaacatcac	aagg		404

<210> 595  
 <211> 345  
 <212> DNA  
 <213> Homo sapiens

<400> 595	
gtgattccaa	aatagagatt
aattgttcct	cattgggttt
gtttgcccc	gcactttaaa
taaggcagt	aggcgtttt
gagaatacac	acggtaggta
ctgcagaaga	atgcaaacgg
tatttattaa	ggattattta
tttcttttaa	aacacacatc
ccttttagcg	ccaggaagaa
ttggatctta	gcagctgaag
ttggaaaatc	tgtccctgaa
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aaaaatctcc	60
gggttgcttt	120
cagttaaggt	180
tccccgtcaa	240
ggaaataatt	300
	345

<210> 596  
 <211> 491  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 596	
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ggaaaggaga	aggtcctgtt
ggatgatctt	gcttggttga
aagaactttc	ccaaatgtgg
ctgggcctct	gggaggttcc
gagagagctg	g
tctttathtt	aacagaactgg
gagcacaggg	cctggggcga
cctctactcc	atggctgtga
gcagccaaac	ccccctccat
cccccgcat	ccttggggcc
catttgggct	ttttcatcct
taaggcaaaa	cagtggcctt
catctggcat	caggtggcgn
	acaaacaggg
	tgtcagcacg
	60
	120
	180
	240
	300
	360
	420
	480
	491

<210> 597  
 <211> 488  
 <212> DNA  
 <213> Homo sapiens

<400> 597	
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tacaaaccag	acagttaaaa
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tgttttctag	agaaagtctg
caagacctgt	aaacatcagt
taaaccagta	aaaagcgtat
agcctgccag	acaaaaaccg
tccgctttgg	tagtacaaaa
cactcgaaat	ggtgaaaatt
tgatgacacc	aaaaagttgt
cctcatcctt	agaaaggagg
acacaggaat	tctcatcaga
tactgaacgc	ttaattttgg
tatttagaaaa	tatttaaaac
	atactcttgg
	60
	120
	180
	240
	300
	360
	420

tatcaataca gttttaaata tttttgagta ttctcttgcc tgttgtattg ctattttaaaa 480  
aaaagtgc 488

<210> 598  
<211> 412  
<212> DNA  
<213> Homo sapiens

<400> 598  
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tggctcacta tggtagtata caatattgtt ttcacacatg tacacttgaa accaaatttc 120  
taaaaacttgt ttttcttaaa aaatagttgt tgtaacatta aaccataacc taatcagtgt 180  
gttactatg cttccacact agccagtctt ctcacacttc ttctggtttc aagtctcaag 240  
gcctgacaga cagaagggct tggagatttt ttttctttac aattcagtct tcagcaactt 300  
gagagctttc ttcattgttg caagcaacag agctgtatct gcaggttcgt aagcatagag 360  
acgatttgaa tatcttccag tgatatcggc tctaactgtc agagatgggt ca 412

<210> 599  
<211> 366  
<212> DNA  
<213> Homo sapiens

<400> 599  
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gcactctagc aggattgatg gtctctggat ttgtagctgt gaccggctcat ggtggaatgc 180  
tcgggtggtt gcactggaga ggcccacatg gtggcgactg aggcctctgt ggttgagggt 240  
ggctcatgat agctctgaaa gttgatggca caattgagac aaggacgtgg agttctggaa 300  
ctttcccagg gtccttgacg cccgagatga agccctccaa cattgcagct cactgctgtg 360  
aaggct 366

<210> 600  
<211> 418  
<212> DNA  
<213> Homo sapiens

<400> 600  
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ttcattttgt cacattagtc ttttgctgtc aggaaaacaa tctacagttt ctcttttagat 120  
ctctcaagaa aaaagaaaag cgaaaggatt gttcttcaag aaaacttcct gtgtgtatca 180  
aattcaacca tattttaag ctattctgac tgtgaaaatg agcattattc ataagttgcc 240  
ttaaaaaaat tcaaggtagt ttggttttta ccactgtatc aaatagtact tggcttccta 300  
ttaggaggtg ggtttataat aaaaagttat gaaacattga taatttattt ggaatgcttg 360  
aaactctttt caccttaaaa gtcactgttt ttttcatggt tcatttgatg atagatcc 418

<210> 601  
<211> 412  
<212> DNA  
<213> Homo sapiens



cgtgtggccc cttttttatt tggagt

566

<210> 605  
<211> 432  
<212> DNA  
<213> Homo sapiens

<400> 605  
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accccataaa attcaaaact tctaccatta tacaaaaata ggtctctaca agtgatatta 120  
tctgtcttca tcaccagtag aatatattag gcaaaacatg taacttcagt agccttataa 180  
gaaaagtgcg ggacacctcg agctacacat tcagcagtag tgtaatgcgt aaaagtttaa 240  
tcttttcacc catttgataa atacacaagg tttataattt aatgttttaa attagcattc 300  
caciaatata caggtaattc aataattatt gtgcatgaat acatacacia tgcttatata 360  
tacaaattcc agtttgtttt catgtgctgg caagggattt gtatacaatc ataagctgtg 420  
ttcatattgg tc 432

<210> 606  
<211> 281  
<212> DNA  
<213> Homo sapiens

<400> 606  
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acagaggaga taggggtgtt cctgtatccg cctcattccc atagaaaact ataagggaag 120  
aaatagaact tggaattaaa gcagcagcaa ggcgaggtga gaatgagatt tctaggccat 180  
cttggtggga ctgatgaaca gcatctctga tctcatgatt taacatctgg ttatccagaa 240  
gggatgggat tggcctaaaa aaaccgatca atttctggat t 281

<210> 607  
<211> 263  
<212> DNA  
<213> Homo sapiens

<400> 607  
cgggcccaaa ctcgtgttat attatcgagg tggaaaacag ccatatgtat taggagggga 60  
aactgaggca gaccacagga cggggctcca gagggaggac aactaggccc agaaccctt 120  
ctggaggctc agagatgcca gtgttccagg aggtctcaca gcatgaaagg ggcttgacta 180  
cattcgcttt tagcagtcgg aatggcggat ggtcaggcgg tggctggaat cacatttaca 240  
tccttcaaat cagcatcctg ggc 263

<210> 608  
<211> 424  
<212> DNA  
<213> Homo sapiens

<400> 608  
ttttttaaca gtggtaaaca gtttttattc aggcaatgaa acatggaaaa aatatattag 60  
taatcattat aataatttgt gagtataact tttacaaaata gttacttgac atataaaaag 120  
ggaaattact gtgcatataa aatttatgta gatgaatatt ccacacaaca caatcctgat 180

[illegible]

$\langle 210 \rangle$     612

<211> 305  
<212> DNA  
<213> Homo sapiens

<400> 612  
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aggtatattc ctccaaaacc cacacagttc agagattttc aaacaccagg tttccatttg 120  
tattaaaatg ggcaagataa tgaaggcaca ggctcacttt gtatcaataa aggacatcaa 180  
acacagtcac gaggcactaa tgacataagc aatcacaaaa agcaagtgtt caaagtcttc 240  
agtaactctt ctccctttaa catttggtcaa aactcagtcg agatatttta atacctcaga 300  
aagaa 305

<210> 613  
<211> 284  
<212> DNA  
<213> Homo sapiens

<400> 613  
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ttaacatcct ttttacaggc tgaactcact caggctgata gaatcaaaat tctttcaacc 120  
aaataagaaa aattcaaaat cgtaaaccgc taagaaaaca aattaaaaac ggtgatgaaa 180  
atacgtcact cctctcgtta ggaacagtgt ctggttgtag aacaggtagt ctctggaaca 240  
ggatttcttt acagcgtagg cacgtgtttc cacctttgct ctgc 284

<210> 614  
<211> 430  
<212> DNA  
<213> Homo sapiens

<400> 614  
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actgggctgg ggagccgaga aggagataga taagggggag aggggtgcagt ggggcaggca 180  
gaggaggaag tctggagccc tggataacaa cacagatata aggtgaaggc ctccctctgc 240  
caccacagcc ctgagccaca gacgttgagg tgcaagaaga tggggatttt ggccacaact 300  
cctttcccat gtcaaaggga agacactgag agcagacaaa ggccaagtgc ccaggggcac 360  
aagaacaagt taacaagtaa aacaattagg gacaccacct cctttcccca gccattttt 420  
cacatttaca 430

<210> 615  
<211> 318  
<212> DNA  
<213> Homo sapiens

<400> 615  
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gcatgggggtg gtggttgagg cgggcagggg aactgggat aatatggggg gtctaaaaca 120  
cagcaccccc acctccagca tctctctac cctttcacac cacagcttag atatccctgc 180  
tccccctcca cacagaaaac cagaagtgtg gggggaagaa gctttgtggg gccccctgc 240  
cgtggcaggg ttaaaggagc tggtagccta caaacctgt aaatattgtg tccatcttaa 300  
aaaggacaaa taagacc 318

<210> 616  
 <211> 400  
 <212> DNA  
 <213> Homo sapiens

<400> 616  
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 ttacaggtgc ccaccacgcc cggttttttg tatttttagt agagacgggg ttttgccatg 180  
 ttggccaggc tggctgcaa ctctagcct cagggtgatct gcctgcctca gcctccaaa 240  
 gtgctgggat tacaggcgtg acgaccacgc ccagccacgt tctgagtttt gaggatccag 300  
 aaacaaaagg ctggaaagcg acaactctac aggtttactg atgagtcggg agaaaatcca 360  
 aaaacaaagc cccactgagg gtttgtgaat ttggctgttc 400

<210> 617  
 <211> 364  
 <212> DNA  
 <213> Homo sapiens

<400> 617  
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 atgccacaca gcagtgggtt gctgctcttt gtcagaatat gtcagaaaac aaaacaaaaa 120  
 aagttttaaa tgctaaagat tttaaaaatt agttctctga aatttctgta aagccagtat 180  
 caccagtcac ataaatcttt attttggaat cataaacctt tcaaaaatgt aatgagcatc 240  
 taccacaaat tacacctctc tgaaatgtaa ttaaaagcta tccagcaaaa acaaaaataa 300  
 atatttttct agaaagaaca tatgtggcat tttaaaataa tgttaaaaac agctttctca 360  
 aatg 364

<210> 618  
 <211> 402  
 <212> DNA  
 <213> Homo sapiens

<400> 618  
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 tgacactgag ccgctcctca gccctcctc ccaccccaa cgcgcacaac acatgcattt 180  
 caaatggtaa aaggcttaaa aacagcttgt atagaatatt ctttttttaa tagattaagg 240  
 ttgaaattgt ctgaaatcag gactgtgtaa tatacaagta tcaactgggtc ccgtccacca 300  
 ggccggccac aggatctgct gccaccactg ggggacattg gcacggggat gcctccctgg 360  
 gggagccggg ggaccacagg catgggtttg cagtggccgg gg 402

<210> 619  
 <211> 129  
 <212> DNA  
 <213> Homo sapiens

<400> 619  
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aatgaaatct cctaccaatc catccagcct ttaccaggga agaaaagcaa ttatttcatt 120  
tcagataga 129

<210> 620  
<211> 419  
<212> DNA  
<213> Homo sapiens

<400> 620  
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atctttatat ttgtctccct cttctcattg aactgcaaaa ttcctgaagg atgagacctg 120  
ggatgtttta tgcaaactgt acattctcag cagagcacaa gtatcaaagg gacattggat 180  
atattttaat aatgatctaa cacaaagcaaa aataaccact gaaaatataa aactcaacaa 240  
gagacataag aaaaaagcag acagaaaaaca aaaaaaattc ttattttaga atgatgctat 300  
atgtaacttg taaaatattt aagtttttat acatgagatt atattgggtt ccttatttaa 360  
agaaaaaat tacaattaag aatggaaatt aaaatgtaaa accaagataa atatttttg 419

<210> 621  
<211> 427  
<212> DNA  
<213> Homo sapiens

<400> 621  
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accagataaa tcatctaaat aaatagatgc tatacagtct cttaccaatg tcagtacaaa 120  
aataaaaaccg cgtctacat ccaactctgac tctcccagca cacacacact cagcaaaggc 180  
atgtgcttgg aatcaactcg tgcccccgac ccctcccaga tacattcatt tagtctgaac 240  
aaagctcgaa gctcattctg tgcaaaggaa gcgctcttgt gctgagacct ggtggccgca 300  
gctggccact tcgaaagcaa aagctaaacc acctcacaga agcacagcgc ctgccccag 360  
aacaagggga caggaggagc ttggcaacga ggtcatcacc cgaacagcag tgacagtcct 420  
gcattcc 427

<210> 622  
<211> 123  
<212> DNA  
<213> Homo sapiens

<400> 622  
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tttcacactg catcctaaaa taagacagat actctgctgg caagtagaaa atagactaat 120  
ttc 123

<210> 623  
<211> 357  
<212> DNA  
<213> Homo sapiens

<400> 623  
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caaattggta attggttcag attcatgagg aaaacactca gctgtatctt cattaaaagg 120

cattttacat	ttattaaggc	ttgaaagcaa	gtcctgttat	tcatcaccat	agttaaaggt	180
ctcgagaaaa	tcaagtaact	atcattttgga	gtgtctttgt	aaaatgaaac	acttgttcctt	240
ttacaaaagc	taagcatctt	ttgttaagct	agttaactcc	ccagcttata	aaataggaca	300
acgaggtggc	caggaaaagta	agacaaaattc	aaacatcagc	tggataattt	atatttt	357

<210> 624  
 <211> 302  
 <212> DNA  
 <213> Homo sapiens

<400> 624						
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aaatacacag	gtaacatttt	taaacagtgg	ggacaaaatt	ttaagtacgt	ggccagctgt	120
tggttgctctt	gtggtcatta	aagacaatgt	taagaatcag	gagtacttaa	gtgctagtgg	180
ttacaaaattt	tggtctcttc	agtttttcat	taagtaaatt	ctaatagatg	atatacatat	240
tactgcagat	aaaaccatca	tcagaaatta	ttaaattaat	tgcataattt	gagctactct	300
tt						302

<210> 625  
 <211> 438  
 <212> DNA  
 <213> Homo sapiens

<400> 625						
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atctatgtct	gcataggaca	tgctctcagt	gtgtaattta	aatggcaata	ctttaaatta	180
attggttata	tataatgtca	gttatTTTTc	tttcagaata	taaccttttt	tgtagtaacc	240
tattctagca	ataggactta	atacgactgc	agataaatag	gactgcaaaa	acaaaaaacc	300
caaaataatg	aaattaaaaa	ggaaaaaaaa	actgtaactg	agatcagagt	tacctttcct	360
ccccaataga	atacttatcg	taaattttta	cactttacaa	tggctatttt	tgtgctaaaa	420
atctgtaggt	gagttatt					438

<210> 626  
 <211> 376  
 <212> DNA  
 <213> Homo sapiens

<400> 626						
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ggtgaagaat	ttgcacaatg	gaaaaccacc	ttgaccatct	catgacttta	tacaggaatc	120
ggaggttaagt	gttcctttta	agtgatTTTTg	tcatgaaaga	gtcatctgaa	atgactctcg	180
tgatggagga	aaggaaagta	atgaaatcaa	cattcatggg	tattttaaaat	gccttaaaag	240
ctaagcataa	tatacatagt	aactcctttt	cctagtataa	aaatagtgcc	agaaactata	300
tttgttcaaa	tatattgaaa	aggtataaga	atacaaatag	atattaacag	tggctagtga	360
tgcttcataa	ggtttt					376

<210> 627  
 <211> 493  
 <212> DNA

[illegible]

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gtacaagccc	tttatcccaa	tccaagtact	cagaaaaaga	ttaacaacag	accctggatg	120
gcacagacat	aatttgtttg	gcggtgattta	aacatataaa	atcagtaatt	aacatttagc	180
atatcacacg	accacttttg	cttttaacaa	actaatcttc	acacatggta	acaaatacct	240
atgatttttc	atttagaaat	attataagaa	gactaaactt	actattgcaa	caacaaaaat	300
ttaaccatt	aaactagaaa	ctctcttc	ttttccttct	tcaaattact	gttttgtgtc	360
ttaaaactgag	ttggtcaaa	ttgagcacat	aattcatgta	gagtgacaga	ctttcattta	420
gagtgataga	cttccaaggt	tcctttgaaa	atttaagata	ctggtaattc	cataaacact	480
cccacaccac	ata					493

<211> 396

<213> Homo sapiens

tttttttttt	tttttttttt	tcacaagtta	tatttttattt	taacacgaga	ttaacatata	60
gttacaaggt	caatacaagc	ctccagtgga	agctctttat	ttggtttaat	tccatctcca	120
gagacaaaca	ggcaactcta	ggacctttac	agtggcgatc	ggcctcacac	agcaaaatgc	180
ctccaaagtt	tagaattagt	gcaacacaca	tacgaacgtt	ttaaaggtgc	tcaacatcag	240
gttaaaatag	aattctggac	ctttttaaaa	agtttttgga	tgatataagc	acaggaggca	300
gagcacataa	gaaacatgaa	accaatat	ctggaaaaac	acttagcatg	aacgtcactt	360
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<211> 336

<213> Homo sapiens

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tcacaagtta	ctgtaaatgc	tggggaccat	aagcatgggg	caggccacgg	taaagatcat	120
tttgaatggg	caagtctttc	aatttccctt	acatcacacc	aagcaggcaa	agcctaaata	180
cagggcagga	cttgcttatg	tgatgtacca	ttccagccct	ccttttcaaa	gaaaacttga	240
gcagggaccc	tgggatacca	ccagcgatgg	tgggactccc	ttttgcaatc	caaataagca	300
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<211> 438

<213> Homo sapiens

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ttctccttaa	atcccagtga	tgcttttata	cttgcaacac	gtgtatccac	ctctagcttc	120
cctgtgcaga	aatgtttggc	attggaatgt	gaggtatctc	tcaggaaaca	gagtggcaat	180
gggtaggatg	aaacctacc	attgagagtt	catgatattc	attgtgaaat	accactagat	240
atagtccttc	attttattta	gagagcttga	agtttctgat	tttatgtaga	acagaaaaag	300

aaacacaaat	tatacaaaat	ttaagtgcaa	tcaaaaaataa	aaatatatgt	taaataaacg	360
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taataaagtc	atttttgg					438

<210> 631  
 <211> 398  
 <212> DNA  
 <213> Homo sapiens

<400> 631						
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tattgtgtag	aataactaaga	aagcatcacc	atacagcacg	aaaagaaata	ttgaaaacaa	180
atcaacagcc	tcacacttgg	actcgccctg	ccccaggacc	caggaagagc	cccaggagt	240
tgggtgattg	tcagggtgtg	gggtggggca	cctccatggc	ccatcctgcc	cctcccttcc	300
tcttcctcac	cacctccctc	cctctggaga	atggggaaga	ggagagaatc	cagattctcc	360
attccagcct	ccctccccc	atacaaatc	cattcctt			398

<210> 632  
 <211> 387  
 <212> DNA  
 <213> Homo sapiens

<400> 632						
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ccagcttgta	ggctggttga	agtacagaac	tcagaggaaa	aaagaaatta	aatttttagct	120
ttctggagag	cagccctct	ctggcaccat	caaacacttc	tttgtttccc	ttcaacttgg	180
aactcttcaa	acatcagggg	ttgtgaggg	ttggccattc	ttttatcttg	gggccatgtg	240
agtgacagaa	atggtgcggc	ctgggaaaga	tctccctcct	ttacattttc	tcttctccct	300
cctcctcctt	attctaaaac	tgtgcctcca	acagaggggc	aggggctctt	gtagagagat	360
ccctggccca	ggacaggaga	tgccaaa				387

<210> 633  
 <211> 331  
 <212> DNA  
 <213> Homo sapiens

<400> 633						
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tgggtgcttta	tttatccaga	agcatgagtc	acatagtaca	taaagtattg	aatacaaaat	120
tctaaagata	aacacaattt	ttcttgaatt	taaaatatat	gggataaatg	cttacaatg	180
gatttataaaa	cctttcactt	ctacttcatt	ctcctggctg	tgtcttccga	agatgagttg	240
ctagttgcaa	cattaaaaaa	aaatagctcc	ttcaaactct	gacactatat	gacataaaaa	300
gaacttttgg	caaatattta	ttcagattgc	t			331

<210> 634  
 <211> 460  
 <212> DNA  
 <213> Homo sapiens

<400> 634  
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 ggctgtgatg cagggtgatcg tgtaatggag aatctctctt tttgaaggct atttataact 120  
 aacactaaat agtttttaatt acagtggaaa ttctgtacag ttttaaggctt ggctctgaac 180  
 tagaatgtaa atatggacca gatttgaaaa taaaacactt tcttttcaag taaaagaaga 240  
 aaaatcaatt aaaaaatata cggcacggaa aaagtaacta agaaaacaaa gccacaggaa 300  
 gccagcagt ttctcctgaa gtgaaatttc ataattattgt aaactaacia aaatacagg 360  
 tttcttcca aaataatgac aatttaagct ctctggattg aacacagacc aaagcaaca 420  
 acaaggaaga aatcgcatata atatgctaaa atcagtacta 460

<210> 635  
 <211> 521  
 <212> DNA  
 <213> Homo sapiens

<400> 635  
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 gcagctgtac aggagtgggg acgcgtcagt gtacaataca ttcatgtcca ggataaggag 120  
 catacaccag gattttataca cgggtggcagc ggctataggc acgatgatac aaaatataaa 180  
 gtatatttcc atctatataa atacacagct ggggtgggga aggatgctgg gtgatcttgt 240  
 ttcccccgca gagggcctgg gaggcaggga ggggtggggg aagggatttc ttacatttgt 300  
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 tgtgctctca cacacacgca caaacaaaac acagacacag gagagtttca aacagcttaa 420  
 cactgattgg aaaacaagct tggggacatc cctctacagt aactccactg ctggcaagag 480  
 cccaggcgtg ggatatgaac agaggtcctc caacattttg g 521

<210> 636  
 <211> 271  
 <212> DNA  
 <213> Homo sapiens

<400> 636  
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 gttaccatac tcaaatgtaa gatagggaga ggtagaagaa atagctgaga acttgaaaag 180  
 atgtactgtt attgtcaaca aaccaatgtc ttctcccttc ataaaattgt gtttagggaa 240  
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<210> 637  
 <211> 386  
 <212> DNA  
 <213> Homo sapiens

<400> 637  
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 ataaatatgt tattataggc atttattact aactatagtc cttcttggaa ggaacacca 180  
 aaccaatact tataaagtac atgtaattta tagtaacata ttttactata tacatatgga 240  
 aaaaatcata ttctcacaga agagctgaac agacattcac caggatacga ctgttgga 300  
 agctgctgga gatggacctg ctaccctca gcagcctccc caccacaaga caagtgatct 360  
 caatgtcccc aaacctgtgg gacct 386

<210> 638  
 <211> 386  
 <212> DNA  
 <213> Homo sapiens

<400> 638  
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 taacaacaac cagtaaaaaca aaaccattca tcttaggggt gaaaggccac tcaaaattgc 180  
 ataaaaatac attcagttca caaagcaagt ctggctgctt ctccctaaac aacccaacc 240  
 ccaccccatc ccaggtgtat ttacagtggg ctgaagttaa tccatacaac tcagctgaaa 300  
 aacagttaca tctggtgtgt gaaccttggt ggaactaggg tgaagggtgg agtaaagaca 360  
 caaaatgcta ccactaaaat gggaga 386

<210> 639  
 <211> 471  
 <212> DNA  
 <213> Homo sapiens

<400> 639  
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 tactgtattg aaattctgtc agtttatggt tcttgaagac tgatgtcctt tcccaaacc 180  
 tggttactgc agcagcattt ttaatgtgta agtgaagaaa aaaggccact aaggccaaag 240  
 attttttaag aatcattgta caaatcatta tgttaaacta totaagcttt gctgtaatac 300  
 tgttttctct tcaatatgtg atggtacagg aaggatgtta aatgaagggg tggattgca 360  
 ggagagcatt ttaaatggca gaagtaaaaa gttataatat ttataatttt gatgggttta 420  
 agtttatttt tgtagggaag atttttctcc cctaaaatag tttctagaat g 471

<210> 640  
 <211> 470  
 <212> DNA  
 <213> Homo sapiens

<400> 640  
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 acaaagcttt gtaaatttta agaaaaacat tcatagatca taaacaaaaa tttcaatatg 120  
 caatattcaa atttacaaga aaataagcac aaacttttag acagtgcagt tattgctgca 180  
 ctctttaat tccttatcca gagcccaaaa aatgtagaca aaccctaaaa atgtagcaga 240  
 agcatttccg cacactgggtg tccagaatct agtttgtgca gaaatgtttc cactagattt 300  
 atagagtact cttcagaaga aagaggcgag ggctcgatc ttggtcaccc tttggacatt 360  
 ttgcaactct tcaatgggtt tccattgttg gttgattgtt ataagctttt gaggtacagt 420  
 agggccaca gtttcccaag gttctggatt tttttttoga tcaaggatca 470

<210> 641  
 <211> 311  
 <212> DNA  
 <213> Homo sapiens

<400> 641  
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 gtgccccagc cgagttcctg cagcccgtt tggccccagg cagtccctga gagggctctgg 180  
 ctgttttctt tgctgtctgg tgacgtgata gcagccctg cctcatggcc tgcattgtgg 240  
 ccggctgggc tgtgtctgagg caggttctag aacagtgatc tgatagcatc caaggcagac 300  
 catgtgggtg a 311

<210> 642  
 <211> 394  
 <212> DNA  
 <213> Homo sapiens

<400> 642  
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 gtatatcaag taagaaaaat attatttttg tgtttttttt taatttctta tagtcaaagg 180  
 tatgtttctg ccttttacat aatgtgacaa aggaatatgt tgggtcaaggc aatggctgtt 240  
 tcagtgtttc agctttaaca agaatgctgg attacaggtc ctcactttct accaaggcag 300  
 tattcagtgat caggtgagat ggggttgccct caggttgga cgtgtctttg atgtctagtc 360  
 cctggtccga aagtgtctga tagcgactgg ctga 394

<210> 643  
 <211> 308  
 <212> DNA  
 <213> Homo sapiens

<400> 643  
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 tttgcttaaa tttatattac atatttatta aggcaaggaa ctatatagaa aaacacattt 180  
 gttctgctta aggcatactt ggggaataaac cattgtacaa attattgcac atctgaaacc 240  
 acagtgcata acagactgtc tgcataaaaa tgctaaagaa gtaaaccagg tatattacct 300  
 gacttagg 308

<210> 644  
 <211> 5654  
 <212> DNA  
 <213> Homo sapiens

<400> 644  
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<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA
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<210> 658
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<220>
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<223> n=a,t,g or c

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<212> DNA
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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
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 <212> DNA  
 <213> Homo sapiens

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<211> 2193

<212> DNA

<213> Homo sapiens

<400> 665

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<212> DNA
<213> Homo sapiens

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<223> n=a,t,g or c

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<212> DNA
<213> Homo sapiens

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cctacagatt gtcatgagct gcacgtgtcg caatcagaag gaatggaagt ctcggaagag 240
cagcgtgctt acagaccttg gcttttagtg 269

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<210> 669  
 <211> 409  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 669  
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 aaaacagcct tgaagcagaa caaagtaaaa cttctcacia caaagcagca ctgatcaagg 120  
 cactgtggca ctggcataag gttaaacagg tcaatggant agagtcaagt gcccagaant 180  
 aagcctgtac atttttgggc aactgattat caataatggg gcgaagataa ttcaatgggg 240  
 aaaaataatg ttttcaacaa atgggtgctg gggacaactg ggatatccac atgccaaaag 300  
 gantgtgggg gctctttaca cccacacaca aaactttaat ttcacattgg gtccaaggctc 360  
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<210> 670  
 <211> 389  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 670  
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 aattaaccct tgtcagggaa ggcattgcca taaacgaaag gaccataac tgcattaagc 180  
 agagaggggac tgactgtcaa tgaagcttct ctatttgcaa tttattcagc aaaagcgaac 240  
 aattttttaa aagtctctaa tgcaaaaatt agttcaagta tcaaaggtct gatcaatttt 300  
 aaaaggcatt agttttattt ttaataaatt gaactggcct tagatgaaag atatagttct 360  
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<210> 671  
 <211> 382  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 671  
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cagcattaat gacacacatt tactaagcac aacaatggac aactacaaat ttagagcata 120
aatgtaattc tgatattggt ttgggttttta tcttagcact aggtgatatc tagtgaaaac 180
ccatgtttca aaggcttttg ttgatatgag gatgaattat taacttattt ttaaaaattg 240
cacgtgagga tatgctagga atggggttct aggagtctag gagttagggt ggataatggc 300
ctttcatgtc tcagtatttc tggcttcctt tttaatgggg gtaaatgttt caccacaggg 360
gactttccaa aaaattggta tc 382

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<210> 672
<211> 284
<212> DNA
<213> Homo sapiens

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<400> 672
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cctaacaatg cacataagtt aaaaattaat tatcacttag tgataacaaa gatagttgat 120
ttacatggaa aaaagaacat ttacaatatg ttaatcctta ttcacattgt tgataccgca 180
ataaaacaca atttgttttt ttcatttcac aaaaaaaaaa aaaagggcgg gaaaattgtg 240
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<210> 673
<211> 438
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<223> n=a,t,g or c

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<400> 673
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atgtgacatg gcaaaaattt agggaaattg ttccatgagt cttttttaag gaaactatta 180
aatcattaat ttcagctgac caagaggatt aatgggaatg ttttgagttt caaatacatt 240
taaactgtgg gaactaagga aatgtgagga tgacaacaga atgtaaatat tatatgtcct 300
cacaaggtag ggantgatac aacaaaaatt gaggggaaaa gggaaaagga aagtgggaag 360
ttcactggat acaataatag ttggggcacc agagtgtatc cggctaaagc taaggctgga 420
cagtcgaagg ggaggttt 438

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<210> 674
<211> 503
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<223> n=a,t,g or c

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<400> 674
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ggagacgtnc	gaaagccccc	cggnccaccg	cagtcggtnt	tccacaccgt	tntgtggcct	420
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tgcccagggt	tggnaagttt	ttt				503

<210> 675  
 <211> 451  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

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cgagagaaga	gagaaggcag	ggagaagggtg	gaggtgagga	agggaggagg	gggctcaggg	180
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gtccngatgg	gactggctga	gtcctggggc	ctggccccgg	acaagaagca	gcagaagccc	360
acaggccacc	acgtttcagc	cgggcancga	agtattgttg	cagccgcttg	gtccgttccg	420
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<210> 676  
 <211> 439  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400>	676					
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acacacctgt	atatgtcgat	gacgacagca	tggagggaat	gaacttgtgc	atggagaagg	180
gggctttttt	taaacttgaa	agaaaccagc	ccattctgtg	tgtgtttgga	ggaggggagc	240
ctgtaaaagg	tatttacctt	gaatcccctc	tggcttacag	ctgcagagag	caaaggagag	300
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<210> 677  
 <211> 411

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 677  
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gtcatcttta gaagttatca ggaatgtgtt taaaacaaga agagaacttt tctaaggaat 120  
gatacataga aaagatttta ttttaaaatg agttgttaaag cttgtgtttc tttgttgctg 180  
caagctatct gcccaagtta atgcaaatgg acacattttt tatgtcagaa aaacacacac 240  
acacacacac acacacacac acacacacga aaaacaaagg aaaaaaatgc ttgagctttt 300  
tctaacttcc ccttgccagtc tgttgtgtga gcagcctgtt tatttcntct aatattatgt 360  
cagtttattc tctttaatgg gantgttaaa aaatgttatt cacaggagtg c 411

<210> 678  
<211> 420  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 678  
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ctcccaccac tattcctaac ctggggcctg gcaggggttg agtgatgtga tctaagggtc 180  
ccngggngaa ggggtggagt gaagaggcag ggtnttgggt taaagggaag attctgaggt 240  
ctcagggcaa aggaaaaggt ttttgatga agactnaggc agtgctacct ccctccacat 300  
ntgaggntca agcaggtttg gncaagaaca gagccctgcc tggggctctt ctnggccnca 360  
gcctcaggag ccaggggttt aaggccanag attaaattga agttttnagc ctttgataaa 420

<210> 679  
<211> 415  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 679  
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caatgcttac acaaattcag ctctgtgata atgcactttc atggagtcaa atttgcaaaa 120  
atgcataaaa tganttagaa ctttctaaac atctttatac aatttatacc ttcagtatta 180  
aaaatggact gaggaggccg ggcacagtgg ctcacacctg taatccctga ctttgagagg 240  
ctgaagtggg gcggatcact tgaggttagg agttggagac ctgcctgggc caacatagtg 300



aaaccctgtc ttagagtaaa antacaaaat ttaacacttg agcccggggg gcggnagggt 360  
 tgggagtgag ctgaggattn taccactgg cactccagcc cggggttgac aaagt 415

<210> 680  
 <211> 254  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 680  
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 ctctgactga aaagccagca gcaggctgca tctctgaggg ccatacctgc tttgtaccca 180  
 ccttggggcc tcagagctag ctactctaga ggaccacagg gtgcagagag ggtntcctga 240  
 gggtccttcc taag 254

<210> 681  
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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 681  
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 acagcagggc tgtcccgaca tcaggcacag cagctgcact tctctgacgc ccctttgcag 180  
 atgcagccct gggcacactt gggcacagcc caggggnaaa caggagcagc agcctggggg 240  
 aaaaaggag agagaaggtc acaggcagac ttnaccaggg ganctccctt tcccaacagc 300  
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<210> 682  
 <211> 340  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 682  
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aattagtttt	caacaacccc	ttggtggttc	cacatctaca	aagatatcca	gcccaccca	180
accccccttc	caaatccac	ccacacagga	aaaggcacat	acttaccaga	atTTTTtaggc	240
aggatatgggt	ttgggggaat	ttttgtggg	ttttgtttt	tttaaaaaa	gggcccccg	300
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<210> 683  
 <211> 309  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 683						
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ggattcngga	anaggtcttc	tctccatggc	tccatcttgc	tctttcacia	aggacccta	240
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<210> 684  
 <211> 351  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 684						
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ttaaaccctc	taaccaacct	aacactcgct	ttcagaggca	cttgtgatga	ttttcacagc	180
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aatccaaaaa	atattttatt	ctttacagac	tcacagattg	cttgatgttt	aggggctctt	300
acctaggata	cctaattatt	caagggtttc	cnaatttagt	agactttttc	a	351

<210> 685  
 <211> 383  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 685  
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gaggtccaaa gttgncaaca aaaaatggta aaagatttcc tcacgcaaga nggcattttt 180  
gcaaatacca tgcaaaacag gcagctgggtg tgcccttaaga gaatccctat aaataacaga 240  
aaagacactc caagcattcc tgtacgtgga ctcagagcac agagaaaaga aactaaaatg 300  
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ggggaataaaa ctgacataat att 383

<210> 686  
<211> 1120  
<212> DNA  
<213> Homo sapiens

<400> 686  
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<210> 687  
<211> 1922  
<212> DNA  
<213> Homo sapiens

<400> 687  
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<210> 688  
 <211> 2657  
 <212> DNA  
 <213> Homo sapiens

<400> 688						
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<212> DNA  
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 <212> DNA  
 <213> Homo sapiens

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<212> DNA  
<213> Homo sapiens

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<212> DNA  
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 ggtctcagtg gaacaacaca tttgaatttc agatttgcag tttatagcat tttttttccc 180  
 taagaacat ataaatacat gcaaaacctt gtacatagag cttaaataat atcaaaatgc 240  
 aaatatagat tgggtgcact gttaagctga attgcaaatt atggcaacac aactggact 300  
 ggggtatacg ttgctttgat atcaccattt gtttgtttat gtcacgcaga ccacaatagt 360  
 caatcntttg nttttccttt ttgnacaaaa ataccagtg 399

<210> 726  
 <211> 503  
 <212> DNA  
 <213> Homo sapiens

<400> 726  
 agcttggttca aatatcttat ttaatattag agtcacaaat tacacatttt gttatattta 60  
 aatcccttgg gccttgtaat caaagaagca catgcagatt gactttttaca tgctgtgtag 120  
 tattccttag gtgcaataga tagaaagtga ggatatttgt ccacctactc agattttcaa 180  
 gatcagattc caccggttta gtagttttca gtggaggagc cagtggaatt tgggctcatt 240  
 tggaaatctt ggcaatcaaa agcattctga gaggcagtgt tgcttcaatc caagtattgg 300  
 gggagtttac catcttctcc cagagagcaa ctctctctga agtagagtcc atccagtcca 360  
 cttcagtccc ataactttta cctgttccaa agccaatacg aagacctccc aaaaattgggt 420

tggtgtaatt tgtaatggtc ccagacagta agccctacac aggcctccat cagatcttca	480
ggcctgaacc catcatacac cat	503

<210> 727  
 <211> 432  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 727							
ccattaaaaa	aactttat	tcatttttta	caaagaatat	cccatctgg	gtcaaaaata		60
tanctgggta	agtacnaaat	atagtcttta	ccatacanaa	agatncataa	nacaaaaaca		120
tgaaaccaac	catcttcagc	ccacactttc	tggtctgtaat	anctctcaga	aaaggggtgga		180
gctcagtgct	ctgncacagg	acagtgaaca	aagtgcctatg	gctgagagtg	actgaccaag		240
tgctggcagc	tgcacgtgag	gggccaatat	ccctatctcc	taacacaggg	caggaagggg		300
gttcaaaggg	cttntataga	agacctgccc	tctagtttcc	tcatnggcag	tatttcggag		360
gttctgatnc	acaggggttg	gcactctgga	tcaagagttc	ctccttgggg	tttgaagtna		420
cagtggggca	ag						432

<210> 728  
 <211> 375  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 728							
tgcgattcaa	cttaaagtnt	taacatngac	aatgtcttgg	aacaataagc	aaacaatgct		60
taaatttttc	attcaaattc	actttccaca	tgtcaaaaaga	cctcaaggta	gaaaaaaata		120
aaataaaaaat	ataaatatct	gagaatccat	cttaataaat	aaattaaaaa	cncnnnccaa		180
cgtttttcacn	ncccntgtt	aatgtcagaa	cattcagacc	acctcaacaa	tgcatgatca		240
gtaacattac	aatgaacatt	gatgttgaag	aaaaactaca	gtacatggat	atagctat		300
atttctatct	accagaaaat	aaagtcgtat	cttttcttag	tataatattg	gtcatttcta		360
atcagaacac	actat						375

<210> 729  
 <211> 425  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 729  
 aaaaaaaggc cctcaaatat atacagacaa aaaattactg tgaagatttt ttcgggaaaa 60  
 gctaccaaat tcagtgttgt gagaaaaact ggtaaccatg cagaaatttt aacatctatg 120  
 aatTTTTTTT ccaaaataca cacatatTTT tttaaaaaag gaattctgtg tcaagtataa 180  
 ctcaaaataa atacaaattc acaagtagaa ctattgaata cttcatatgg ggtaaacacc 240  
 attatctccc aactagatcg ctagatctac caactgcaag cgattgtccc ttttgaacgt 300  
 actaaaacca cacactttcc catcccctgg gctcctggcc ctctgagcac ttaatttctca 360  
 atgggcacct ggccctgcatg gcaggggggt ttgctgacca caagagagtt cccagttca 420  
 gccag 425

<210> 730  
 <211> 454  
 <212> DNA  
 <213> Homo sapiens

<400> 730  
 gttgttggaa aaacatttat tgcaattcag tgtcaaaagt tttttacaaa aatatgccac 60  
 cgtctggtag aaacaactat aaaaaatcag ttcacatgc aagaaaagtg tgcaataat 120  
 ttatacagaa ggactcagct cacacaatat taaataaaca tctctgcatg taattggtct 180  
 aactttatgc ttttagttaca atgttcaacc cctctataa cttttcattt aaaaaagtac 240  
 attaaagctt ctaagcttag gacacaggct gtaatatag cccactttag ccatgggtgat 300  
 tggcacttgg tagaataaag attggcacca aggattccca agtatagaat acagcttgga 360  
 gccttctgct taacagactt gtgcttcgtt aattaaacaa acacatctat actcaaagac 420  
 agaaaaagtc atgtttaaac tccagaaata atgt 454

<210> 731  
 <211> 427  
 <212> DNA  
 <213> Homo sapiens

<400> 731  
 aaaaataaga tttaatgctt tattgtctct gatggcaaatt caaaatatgc tttagaaata 60  
 aagttaattt actggaaaat aggagttttt gcaccaaac ataaaattgc atttcattac 120  
 atcaagagaa cccctcatt gtctacaatc atgcccgtt cctttccct cagcgcctgg 180  
 gacacgtgac cgagatcata cctaaattc ctgatcctt tgcagttgcc acatactgtg 240  
 gtttttagtac atcataaaaa agtgcttgtc ctgtggcctc agctgggagg cctggcgctg 300  
 gggctaagg gccaaggca ccatccaaag gctgggagga aagaacccaa acccaggccc 360  
 tctctctgcc ctccagcctt tgacaggcaa ctcatTTggg catgatctgt tttggtgtgt 420  
 ttaaaac 427

<210> 732  
 <211> 399  
 <212> DNA  
 <213> Homo sapiens

<400> 732  
 cagaggatct ttacatgttt attaaatctg aatttgaaga tacattccaa tcttgcataa 60  
 agtgttttgt gggcttttac attacgtaat taaaaaacia aattttttta ccaattttat 120  
 gtgccatgtc acgttttaat ctatcttgtg tgaccagatc ccaccagtaa tgacaaaact 180  
 gtcttaaacc tcattttttt tttttttttg agacaagagt ttcactcttg ttgccccaac 240

gagagcaatg gcaccatctc gactcactgc aacctctgcc tcccaggttc aagcaattct 300  
 cctgcctcag cctcccaagt agctcgggat tacacgcatg cgccaccatg cctggctact 360  
 tttgtatttt taatagagac agggtttctt catgttgggt 399

<210> 733  
 <211> 488  
 <212> DNA  
 <213> Homo sapiens

<400> 733  
 ttcataatttt aaaataatct tttatttgct caccatagac attctgacct acattacatt 60  
 gatatacatt atattttattt gcagtggaga ctgaataatt taccacacag tataaatcac 120  
 aaaattataa ttcctgaatt tctagcatta ttgttatgca tgtgagcggg taaccagaat 180  
 aatcaaacat cattgatgtt aatctaagtg agaagttggg aataaacact tctaattatg 240  
 aatctagaaa tttcaggaga caaattccac cattgaattc ttgtatcttc agaatcagac 300  
 ctagcatata taatcagaaa ataaattttg aagttcaaact cagtgggtgtg tgtgttagaa 360  
 atgtcaacat gtaaaacaga atgctagtta acaatcacat tttcctaaga aaaaatttgc 420  
 atcttaatca tacgaatatc acgaaaacag accatttcca gttttcactg tagtcctgga 480  
 tggttttc 488

<210> 734  
 <211> 426  
 <212> DNA  
 <213> Homo sapiens

<400> 734  
 gaggtttgga aatgtgcttt tattttcaaa ctcaggtatg tgacactcta cagttcaatg 60  
 ctagcacacc tgtgtgaggc ttaacaacat gaggaactga tagccagtga tacacaaatc 120  
 cagcacttcc tctccattta ctctgtcagg ctgtatatgg ggagcaacac atatggcttt 180  
 gtggcagcca gaaagtgaag gtcttttttag gaggtgacat caacaatgac acaaacacat 240  
 cactctgcaa ctgaaggcag ggaaccagac tcctagggct aagcagagat gtcagacttc 300  
 agaggcattt gggggactct tcagatccac atcctcactg aaaatccagg gcctgtttct 360  
 ctccagttca ctaccgcttg ggcagcagct cccactgctt caggctgggt ctttgctttc 420  
 cagaaa 426

<210> 735  
 <211> 228  
 <212> DNA  
 <213> Homo sapiens

<400> 735  
 tttttttttt ttttctcttc aaatatttaa tcagtttggg gacctctgca ttccaatcca 60  
 attgggtaaa aattctaaag aaagcaagat taaggggtcc tcaaagaaaa cactgggcta 120  
 aaatggagag gagactgggt ttgggaagac agaacatagc atgtgtctga aggcctttcg 180  
 aaggaattct acgacatatt ttttaaaaat actcctaatg aacaagac 228

<210> 736  
 <211> 426  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 736  
 cggttagagac aggggtcttgc tatgttgccc aggctagtct caaactcctg ggctcaagca 60  
 gttcttgcct cagcctccca aattgctggg attacaggca tgagccacca tgactggcct 120  
 aaaacaaaat aaattcttaa tggcatttcg tggaatgtgt ttaagagcca aaactgtgaa 180  
 aatgtaagct ttatctttct tttttcctag attattttaa gaggattgta gccacacttc 240  
 agatgaatgt ttacaagcca aataatgatt taagagtgtg ctcaataaaa aggccatagg 300  
 ttttaagaatt aaatggaata atataaatta ctaggtcaac aagaatattt catgtatagt 360  
 acactgtcta aggaatgcag agaaatttta caagaaacc cagactaaa tacttcntta 420  
 agaaca 426

<210> 737  
 <211> 447  
 <212> DNA  
 <213> Homo sapiens

<400> 737  
 atcaatcata tttctgtcat ctccaaccta agatattttt tagattgtct ccctattctt 60  
 tgattcaaaa gcccaattaca gaaactatga acttgacctt attctggttt ttgacaatta 120  
 tgagacagaa ataaagaaat cgcaagcagt tcttttcttt gcacactgac ctttttttaa 180  
 ttacatcatc ctctatgatg atgggtgcttt cacaactgca gctctctgt atgtcaaaat 240  
 cattctgggt tccaggtaaa tggacaaaagg agatttgcct tcagtgtcta gaaggcaatt 300  
 tacttttcag ctgccttaat tacctatagt ttaaagaaag gaatgccaca tataggggtcc 360  
 tttaaacatc taaaatgggg aggttggcct ccaaggggca ccattcccaa acatttgatt 420  
 tcaagtccca gaagcctttc atatatg 447

<210> 738  
 <211> 288  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 738  
 gcaacaaaag aaactattta tttggaatat gcattaccag tacaaattag gagactgtaa 60  
 aacctacacc gtgttagtat cattagagaa cacaaaagtt cagttggaat caaaaggac 120  
 agaagcctgt gctctcacag aagcagaaaa gcttaaactt tcaaaaccaa aacagagcag 180  
 agtttgcagg tttatattct gaataataag aaatggggng gggtaggggg agaataaaac 240  
 caacaaccaa aggaaagcat ttcaaattga aaatgccaaa ggaaagaa 288

<210> 739  
 <211> 440  
 <212> DNA

[illegible]

<223>  $n=a, t, q$  or  $c$

aaattaaatt	ttttattcat	ttttttgcat	caaaatagtg	cttaaaattg	gaattttatac	60
tcacaagaca	tagctaacat	ccaaagtaga	caattaaaaaa	atattatttg	aaaattatgt	120
acttagtact	gaagacttcc	taaatttgca	cattagctag	attgccatta	gcaccattag	180
agagttgatc	tttggctaata	gattattcag	gaaaatttca	accattacaa	tcagtgaagta	240
taattttata	tttcagcaac	gatagtgggt	catgttcagc	aacagcttca	cttacaaatt	300
aaagtaagct	cacttcagt	ttgcactctg	atgctgtttt	tttaccctt	ctcttgcaaa	360
taaccagtga	aataaaaaatt	gcctctaact	ggcaatcgna	acaagggagg	aattatggct	420
agncaactag	ttgctaata					440

<213> Homo sapiens

 $\langle 223 \rangle$   $n=a, \bar{t}, g$  or  $c$ 

tgtattttaa	aaaattttatt	tgtgatctgt	acatgtgata	aagtggggta	gaccttttaa	60
gccaaacaaa	caaaaatcca	aagtaaaaat	gtataaatac	aatatatatt	ttcttacaaa	120
aatgggagat	ttacaaaata	tacatactgt	acttatcnct	attttacaaa	tttcacatgc	180
acttaaaaga	tacagcacia	aagatgccaa	aacctgtggt	ggagttttta	aaatctgaca	240
gatgagatag	ttttgaagg	tgaagaaaca	caagatcgat	tttaatggaa	aaagcagttc	300
cactcaa						307

<213> Homo sapiens

ttcaatataa	atgtgtaatt	ttaatattta	atttaaaata	aaaccaaggc	tggattgggt	60
tgggaaagaa	cgtttgattt	gcagaagaat	atagggaattt	ttttaatcac	gacattacaa	120
gtcatttggtg	aaaacagcct	tcctcctgcc	accggtccct	atacaacctg	cttaggaaat	180
atggagggtga	atcatccccc	ttacctcttc	cctaccagggt	cttggttctc	cccaaaatcc	240
aaaggagaaa	taaatgtctt	ccgttgccct	ttcccatttt	tacagtcagc	ttctaacccc	300
ttgcaaagcc	ctgaatcaga	gccaaagcacc	tcagaaaatg	agggtcacct	ggttctctta	360
ttgaagttgg	gcacatgtgg	tcagagaagc	cccaagggaag	gccacaggga	ctgacacctt	420
tactttttgga	attttgtgcag	ccagttttgtc	agg			453

636

<211> 248  
<212> DNA  
<213> Homo sapiens

<400> 742  
atattttcat ttttcatacct aatttactga agccattttc tttgggttagc tttagaatta 60  
tcttttcttta tactaaccag cttagcatgt aataattctt gcccatgtga ctacaaaaca 120  
ttagatatct ccacaaataa aaacgagatt caccaacaca aatattcctt ctctttaagt 180  
tcacaaaatg caagaagaaa agaaaaatga tgtaggttg tcagtaagga aagcatttct 240  
agatgaga 248

<210> 743  
<211> 558  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 743  
tcttgagtca atatgattta ttgttttctc ttctgccatt aacattctag ctactgggta 60  
agtgtttctc catccttggg atctcatggt tgggaggaga ggtctgggtt ccctcccaca 120  
aaactctcaa cgatagaata gaagcacagc tgccctcagtt atctcacggc tgctgctgta 180  
accaacatga gttccatata cactccaatc aaaaccagaa aaatctccac actgctgggg 240  
actggcctct ggaaaagtat cctcctccac caatgcagtg atgctcagtg ttacatccgg 300  
tgaccctcat tcccagcaca caaggcgttg ggtgctctc tcgttattaa ataccctgga 360  
actgaacaaa tcccgcagtg aattcccgtt gggccataag gggtagtaaa taagatgctg 420  
tttttctggg cgtcgccaaa aatnatagac cacagggatc accggggccgn tggtcagtcc 480  
aanactttcc ttctccatat ttcacnggaa aatttcgggt anatgcccaa nagattatgt 540  
nccagtgtct gggggaaa 558

<210> 744  
<211> 409  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 744  
agtctagatg aattttattgc cattcacata tttcatagaa aaaaagatgt agcaaacggg 60  
tcagggttgt acaaaaaaaaa aaaaaaatcc aggtttatat aggttgctct atttacatct 120  
gagagcacag ctgtcctggc atcaggcaca gcagctgcac ttgtctgacg tccctttgca 180  
gatgcagccc tgggcacact tggcacagcc cacaggngang caggagcag cagctcttct 240  
tgcaggaggt gcatttgcac tctttgcatt tgcaggagcc ggcacaggca caggagccaa 300  
caggcgangc aggagcagtt ggggtccatt tcgaggcaag gagaagcagg agttcccgat 360  
tcaagaggaa aacacgcagc gggacagatt ctctgtccga attcttggc 409

<210> 745  
 <211> 298  
 <212> DNA  
 <213> Homo sapiens

<400> 745  
 atccagtgtgta aaaaggaagt tggaatggga gttggcgggc agtgaacgag tgtggggaag 60  
 gattggtgct ggggcaacag gaaggggcct tgggcgtttg gctgcactaa ctttggtagc 120  
 tcagtgtgca tctagagtgg gacttgggag ggagctaagc ttgggctggg ctgcttgggg 180  
 cttggcatag ggtggaaagg gctacctggg gctctgacca cactgtagta tgtgtggagg 240  
 ggccctcccgct ctcccacaac ttctgctata acaataaact gtagaggatc ttaaagag 298

<210> 746  
 <211> 436  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 746  
 gaagtatact tccaagcaaa atttattaga tgtctattca agaaaaacac aatgaccttt 60  
 gcttgaaga attcaaagtc aattacctgg aagccaggta tgaatagttt tttcttttaa 120  
 aatcagatac agagagtaga aacagtaatt tttcttaaat atgacaggca acagatattg 180  
 aagtcttttc tcataaatgg catcaaagag aattattcat ttatcagcaa agngcatgca 240  
 gttgacttaa tttcaaacct gaagccttta aaatatgaag ctgggttatga acttgacaga 300  
 aatcaaggta ggctactcaa cgatgtttct ttaccttctt cctaattggaa attcccttgt 360  
 catcagtcag tagatatgta catttcattt gggtctctac ggatcttttt aaccttcata 420  
 ggatttttgg cataaa 436

<210> 747  
 <211> 474  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 747  
 gaatgtatat atttattata atctccaaaa taatttcact tgggtacaact gcttcttaaa 60  
 accatatcaa tatcaggctc agaatttaaat tacaaccaag caattcaca aaacactgag 120  
 caacaaaaca tgcttaatat ttctttgaga aagacccttc aaatatgtgt acagcatcac 180  
 tgggagttac acaaaaactgt tacaaggtga ccattaagtg ccccaattct gcacttctga 240  
 catacatgaa tggctaattgt aaccacgttt gggaatcttt ttacatctca aaataaagct 300  
 ttctgatgca acttgccatc cttttaaatt ttaaaggata ttcttgggta attccttagg 360  
 aaagtaaaac tacacacact ttcagagaaa ccaataagct gcttagattt ttaaaatttt 420  
 ttatattata cacttcaatt atggggtatt taattaaagn cctccaaaaa aanc 474



<210> 748  
 <211> 147  
 <212> DNA  
 <213> Homo sapiens

<400> 748  
 cagtgtccat aaataaagtt ttattggaat acagccacgt tcgttcatgt atgtgttgtc 60  
 tatggctgct tttagcactac aatggcagaa ttgggtgggt gcaacatatt ttatggcccc 120  
 cagccctaaa atatttactg tttggcc 147

<210> 749  
 <211> 441  
 <212> DNA  
 <213> Homo sapiens

<400> 749  
 tttttttttt gtttcaacca caagtattta ttgatggatc gaagatacaa ttttaattgga 60  
 acaataaggc acaaccgtgg attaaaacac tttgctatac agccaaaagg ggggaaaatc 120  
 tataacctta ggaactttat gccaatcaag aagcctctaa agtacctctc taatagatca 180  
 gtatcagaca ttcttccctt ttacataatt cctatattac atcacttaat cataaaatct 240  
 gactgatact tcataaagaa ttccctcattc atttatattt gagccatcca gcctggctac 300  
 tcccctgttc tccacccttt tccatcactt tgcagtggta ttttttagca atcttcaata 360  
 gttttccaaa gcaaggaaac aagcaagcaa gcaatgagtc agaaagtcaa ccaagggcag 420  
 atgtgtgggc taaatacact c 441

<210> 750  
 <211> 447  
 <212> DNA  
 <213> Homo sapiens

<400> 750  
 ttttttttta taaagaaatt ttattgcata attottgtat acaataaaca taggaaaagg 60  
 gtttttaattg aaaattcatg tcatttttca aaagtgttga actgtctgga gaaaaattat 120  
 tacaaagcta tctaaggcaa aaataatatt taaccatcta aacaaaagat aatccccctt 180  
 accatttggt ttgtatttaa agcaagacat tttaaacaca agtaatacgg agaagttttc 240  
 aaattgctac gtcatttgca ttaagaattt aaatgcatct aagaagtga gagtttaaac 300  
 acatgggaat gttctctagt aacagatatt gctgctttct tcagatccat tctgcttgaa 360  
 tgtaaggcta tactttttgc acaccaacag aattctggca tcttctaatt gtacagtaag 420  
 agctggagtg cagagaggga aagtccc 447

<210> 751  
 <211> 421  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 751  
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 ctctgcagtg actccaggaa cccctctcac agctcagagc ggaagtgaag gctgcagctg 120  
 ccatcttctc cgcatagtcc gcatcgaagc gctcattctg cgccacgggtg aagggtggtct 180  
 tccagtcacc agccatgcct ttctcatga agggggagat gctgtggtcc atgaactccc 240  
 ggcggaacggg ggtgtagttg gtcatagggt tcttcttcat ctcttgaaac gacgtgtgct 300  
 caaccatgag gtccacagtc tcctctggca gggagcgccc cacaaactcc agggatcttt 360  
 ttgaatctcc cttttggggg ttctccttca tgtcttcata gaagaggtag agaacagggt 420  
 g 421

<210> 752  
 <211> 435  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 752  
 gcatcaagaa ttantaaata cagtgtatca ttatttttaa gacatgttta gggaaaaaac 60  
 cagcttctct tccccttaaa gttattggtg gtgggagggc aagagaggaa gagatggcag 120  
 ctttttaagt gaaattttta tottatctat cttttgttca ttttgagtcc ccaaataaaa 180  
 tatttctgta ctttaatttc ttaatcacta ttgtcagctt gggttgctac acatttaatt 240  
 acaatataaaa gttgacattg agggatgaag gaaacttaat tatacttttc cttatttcta 300  
 tttaaccaat aaggatttta ataggcaaat taggaacaag gattttacc ccccttaata 360  
 actaaggggt tagggtaagg tggaatttg gtatccagggt aacncggggg ttcnnggattc 420  
 nggggtgtac ccggt 435

<210> 753  
 <211> 431  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 753  
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 ttgattttaa aatttttttt catgaacaaa ccatcagtag ttattaagga gcccaagaaa 180  
 taggagatgt gaaagcagga tttctttgtg tttcctttga atgttggtat tttgagtatt 240  
 atcattatca gggtaggagg gaaggaaagg gttagggctgg ggaaggtagg gtccttatgg 300  
 atatcttgac tatgggatcc ccaggattta catttcacct ggtcacagng gcacacataa 360  
 tttaggataa acatgttcaa ggaatggaca taaacagagg ggtaaacaca ggggggcttt 420  
 acatttgggg g 431

<210> 754  
 <211> 348  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 754  
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 gaggggttgaa agccccactt ggggtccccga ggggtccattg agccctctca ggccagctcc 120  
 aggaatcctg ggcctgggtc acagagcaga gttgcttgca gggtcctagt ggccatcggg 180  
 ctggggcagg acatcatctc tcagaggggtc agaggctcag agctgggtgc agctcagcag 240  
 gtcacggccc tccaccagct ctgggttctc ccgcatcatg tgggtgggct gctttttccc 300  
 ccaccagggg cctnagctcc agcagctngg tggggtnagc ttagcaac 348

<210> 755  
 <211> 424  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 755  
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 tgttactacc tttttacaaa accatgaaaa gcaaaggatt tatgcctaca ctaggtgaag 180  
 aagccacact gttatatgtt atgctaggat gtgtatgcc ggggatcaag tgtgctacaa 240  
 ggccaagagc aaagacctgc aattactcca aatgatagcc aagtccttct tcgggcatct 300  
 ttatggcatt tacctaaatt atgcccagag ctctgtgtgt tgtgtgtgtg tgcacgggtgt 360  
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 aggg 424

<210> 756  
 <211> 301  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 756  
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 cagccataga gatcaataac tttccatgcg gaaataaaaa attcattgct caataacatt 120  
 attgaggcaa gtgaagaaag attactctct tgtcaatctg aaatgttaat tttttcagtg 180

caaaaccagt tataaaatat ttaaactcaa tatTTaaaaa taaaangtgg nccaattca 240  
gcaatgttca agttctaaat ttcataaaac aaatcattac atacatttta tagtaaaata 300  
c 301

<210> 757  
<211> 266  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 757  
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aggTgaatat taatctaagc attttcctat cactttttaa attttatact atgtactttg 120  
tattaaatag tacagtagtt tcagtaagac atgtaaaatt tgccatttta accaccttaa 180  
ngtgtacaat tcagngacat ttattatatt tacaatgttg tgcaaccatc accactaatt 240  
catcaaattt taataatctt ttaatt 266

<210> 758  
<211> 345  
<212> DNA  
<213> Homo sapiens

<400> 758  
TTTTTTTTTcc taaggctcta cttcaaagtg ctggctattc aaccaactaa tctgaatagg 60  
tatttgatg gTgaggtaaa agctatttta aggtctgttc tcatctcact ttaataaggT 120  
gaaaaaaatt gccatatgta ctaaaaatag ttcaactgttc tgaaactcaa tgctgtttg 180  
ccaaaacaat attaatgatg catattctat gcattttttc cccaaatatg ggcattctgcc 240  
gtgcacaaaa ttcaggaatg ggaaaccacg agatatttga aataacacca tcctctttac 300  
atgggttaaa aaagtcaaTt ggaatccagt tacttttaat taaaa 345

<210> 759  
<211> 382  
<212> DNA  
<213> Homo sapiens

<400> 759  
TTTTTTTTTaa agaaagtTTa ctatgtgtaa tgcaaggcac ttatgtctct gcttaaagct 60  
acaagggaaa aaatgacaag cccagttttt ttcaagggaa atattttttc tctgtgaaag 120  
gtcagtagta aaagagctag tttaaagtca tggagttttt gccaaaaacc atgtctcgag 180  
gttttatgca tttctaattg ctttgcccat aggagagata cccagagtgg acaaacagag 240  
gctaaggaaa aaaatgctgt tcatttagat cagaataacc tcgctccaat ctgggaaacc 300  
actcaaTga cacatacaag tctgtatgaa aaggcaaaac aaactcctgg gtgatatgca 360  
gttattccat tcaacatgtt ta 382

<210> 760  
<211> 356

<212> DNA  
 <213> Homo sapiens

<400> 760  
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 atatttgtct cctctcttctc attgaactgc aaaattcctg aaggatgaga cctgggatgt 120  
 ttaatgcaaa ccgtagattc tcagcagagc acaagtatca aagggacatt ggatatattt 180  
 taataatgat ctaacacaag caaaaataac cactgaaaat ataaaactca acaagagaca 240  
 taagaaaaaa gcagacagaa aacaaaaaaa attcttattt taggaatgat gctatatgta 300  
 acttgtaaaa tatttaagtt ttatacatg aggttatatt gggtttcctt atttaa 356

<210> 761  
 <211> 444  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 761  
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 caaaaataatg ctcaaaaaaa tcagtgttta tgtacaaata ttaaaatcaa tgcaatagca 120  
 acttcctctt gaacatctga tactgaaact tgttctgatt gtcactaatt tatctcatal 180  
 tcacagggtta cttattttcaa actgggacaa ttggaatcac tggatcatcta agaggaatat 240  
 taatatctac catattttaac aataaaaacta atagtttctt ccatttagtg aaaaaattag 300  
 ggaacttttt aaaaaacata ggtaacgtca atattttatt aaattatttc aatttcctnt 360  
 tgtgggccat gtgctttgga aactcggggc aaacattctc cntgggnggt cgggttnttt 420  
 gttaggttac ttcnagttgg attt 444

<210> 762  
 <211> 368  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 762  
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 aaggtttgct tttcctcttc tccaggggaa gctactgcaa gaagggccac cagccaggct 120  
 aggtcaaatt gggttggggc cacaacatga tagttaaacc cataaacaca gacttgattc 180  
 gntcccagct tcacgacttc ttagctgtgt gaccttaggt aagtctgtta acctctctca 240  
 gccttggttt tgtggagtgg agtgaagagc agggcctgct tcaactgggt nttatcagga 300  
 tggaggggga caaggcctnt gaaagtnttt agcacagcgc ctgggcagat cgtgaccagt 360  
 cacggagt 368

<210> 763

<211> 261  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 763  
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 tggcctctag gcagggtgggt gttctgtaag cctggcaaaa attctggagc caatctctgg 120  
 caaggctgag tgccaggcgg ggcctagggg cccagggtcg gtgcttaatg cctccccgcc 180  
 attggaaatt actgacctcc aaatatatat atatatatgt tttttaattt aaaggggaag 240  
 tacactgcac accttcctcc a 261

<210> 764  
 <211> 691  
 <212> DNA  
 <213> Homo sapiens

<400> 764  
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 gttggagtct gatcttttcc cgacgtctac ttccctgagt cctttctacc ttccggccacc 180  
 ctccctcctg cgggcaccca gctgggtttga cactggactc tcagagatgc gcctggagaa 240  
 ggacaggttc tctgtcaacc tggatgtgaa gcacttctcc ccagaggaac tcaaagttaa 300  
 ggtgttggga gatgtgattg aggtgcatgg aaaacatgaa gagcgccagg atgaacatgg 360  
 tttcatctcc agggagtccc acaggaaata cgggatccca gctgatgtag accctctcac 420  
 cattaactca tccctgtcat ctgatgggtt cctcactgtg aatggaccaa ggaaacaggt 480  
 ctctggccct gagcgcacca ttcccatcac ccgtgaagag aagcctgctg tcaccgcagc 540  
 cccaagaaa tagatgccct ttcttgaatt gcatttttta aaacaagaaa gtttccccac 600  
 cagtgaatga aagtcttggt actagtgtg aagcttatta atgctaaggg caggcccaaa 660  
 ttatcaagct aataaaatat cattcagcaa c 691

<210> 765  
 <211> 2704  
 <212> DNA  
 <213> Homo sapiens

<400> 765  
 gcttagtgta accagcggcg tatatTTTTT aggcgccttt tcgaaaacct agtagttaat 60  
 attcatttgt ttaaacttta ttttatTTTT aagctcaaac tgcttaagaa taccttaatt 120  
 ccttaaagtg aaataatTTT ttgcaaaggg gtttcctcga tttggagctt ttttttctt 180  
 ccaccgtcat ttctaactct taaaaccaac tcagttccat catggtgatg ttcaagaaga 240  
 tcaagtcttt tgagggtggtc tttaacgacc ctgaaaagggt gtacggcaggt ggcgagaggg 300  
 tggctggccg ggtgatagtg gaggtgtgtg aagttactcg tgtcaaagcc gttaggatcc 360  
 tggcttgccg agtggctaaa gtgctttgga tgcagggatc ccagcagtg aaacagactt 420  
 cggagtacct gcgctatgaa gacacgcttc ttctggaaga ccagccaaca ggtgagaatg 480  
 agatggtgat catgagacct ggaaacaaat atgagtacaa gttcggcttt gagcttcctc 540  
 aggggcctct gggaacatcc ttcaaaggaa aatatgggtg tgtagactac tgggtgaagg 600  
 cttttcttga ccgcccagc cagccaactc aagagacaaa gaaaaacttt gaagtagtgg 660

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aaggattctg	tgaaggatgat	gagatttcca	tccatgctga	ctttgagaat	acatgttccc	840
gaattgtggt	ccccaagct	gccattgtgg	cccgccacac	ttaccttgcc	aatggccaga	900
ccaagggtgct	gactcagaag	ttgtcatcag	tcagaggcaa	tcataattatc	tcagggacat	960
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acaacaatgt	gcagtgaagc	tgtggaagaa	aagaagcagc	tttacctact	tgtttctttt	1440
tgtctctctt	cctggacact	cactttttca	gagactcaac	agtctcgtca	atggagtgtg	1500
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aaaagaaaaa	ccttctagag	ctgatttgat	ggacaatgga	gagagctttc	cctgtgatta	1980
taaaaaagga	agctagctgc	tctacggtca	tctttgctta	gagtatactt	taacctggct	2040
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aacccaagga	ggaactcttg	atcaagatgc	ccaaccctgt	gatcagaacc	tccaaatact	2460
gccatgagaa	actagagggc	agggtgtcat	aaaagccctt	tgaacccctt	tcctgccctg	2520
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cagccatagc	actttgttca	ctgtcctgtg	tcagagcact	gagctccacc	cttttctgag	2640
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acct						2704

<210> 766  
 <211> 408  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400>	766					
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agtgttgant	acagctgggtg	gaaacngct	ttttgacagc	ngngcaatca	gaggggtgta	120
ctcagggtga	cgtggaccgg	agggggcctc	tggcaaacca	gactcttctc	tggtttgtnc	180
ttcagaccac	gagtggaac	catctcttca	aaggagccct	gccaccatca	ccaaagctca	240
caccagaaaa	aaccgccatt	tacacaacaa	actgaacctg	aaaaaggaac	ggaacatggt	300
gcttccgccc	tgaacaaaat	cagcaagtga	atccggtttc	ctttcccggt	cttttcgnaa	360

aagattcggc tagaggaaaa ggggggcact ttggggcagc ccntaggg

408

<210> 767  
<211> 281  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 767  
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gttaacttac caaaaacata acgcttgcc attgtttctt actgtgcaaa acaaaaccaa 180  
agttttgccc acagangnt tttgtgcacc aaancatgca catttncaat ttcaaaattt 240  
ctgcatcaaa atgnaaattc caaggccacg tttttgtttt t 281

<210> 768  
<211> 339  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 768  
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gaatttaagg atgatggaat gatggaagg attacatntt tctaaaactt aattaagctc 180  
taggtcagat aacaatggag taaagtgata cctgcgtttt tttccccagt gtaatcttaa 240  
tttactattg tattttncac ttaaaatttt gtagggaaaa aagttttcaa gggaacacta 300  
agattaaatt gactagggtc aaatatgctt ccccaatga 339

<210> 769  
<211> 370  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 769  
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ttttcataca tatgtcatta gagctatgng tcaatgaatg ctgattttat gngaataata 120  
tcaacaaatt aaagantttc accaaaaccc aaataaaaat gccctttaaa acacagcagc 180



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cttattaacc	taatatgaca	ctgctagaat	ggttacaaat	gattggctta	ctgaaagggg	240
tctacatctt	ntagccagta	cacaatacag	taataatttt	ncagngggct	gccattctac	300
tagctaaggg	tttctgntca	gnccntttta	aatacccccg	actggggccn	tttatgngca	360
ccatncacct						370

<210> 770  
<211> 367  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

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acaatcacct	agacataaag	atttccaaga acttctcaga aatgggtgatc tttagaagtg	120
ttattccttt	cagtaagatg	acaganctag atgattacgt atatagatat atagatatat	180
atatatatat	gtatatatag	ngtttagaac ctgtccacat ataatttgct ggtgttgctt	240
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ctttttaaaa	accacgggca	aagttaattt tgagaaaacc acaggngcag caatatcaga	360
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<210> 771  
<211> 163  
<212> DNA  
<213> Homo sapiens

<400>	771		
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tttaatggat	tcaggcagca	ccccagagta caggactgag ttccctagggg tggcctgacc	120
cagcagctgt	cttcttttcc	aggaggaaaa agctttttat taa	163

<210> 772  
<211> 413  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400>	772		
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aaaacagagg	cttagcaagg	ttaagcggct tgttcaaggt cacagagctg gtagataagt	180
gatagaatca	gcacttgagt	tgtgcatctg tgagggcccc aaagctttca tcaggcattt	240
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tgataaagac	ataccccag	actggggtaa tttatggaag ganaaaggag ggttttaattg	360

gaactcacag ttccctgtgg gctggggagg gcctcaccaa tcatgggtgg gaa

413

<210> 773  
<211> 409  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 773  
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gaagtcctgc gctctccatt tctccatcgc tggtctctcc tgggagtcac gccaatcatt 240  
gggtctgggcc ccgtcaaagt ttccacaggg cccacacagt ttcccagcat gggtcattgc 300  
tgacaatcac agccaccttc ccattggggt ccaagccacn acctggggac ccctgccttc 360  
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<210> 774  
<211> 281  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 774  
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ctcagacaga agcatgtgca gactgctctc agcaacgcca cctccttcac tccttgcca 180  
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agggattttc cagggccttg ggggagctgc tgctttcagt t 281

<210> 775  
<211> 298  
<212> DNA  
<213> Homo sapiens

<400> 775  
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aaacatgcac attcacaaaa ggccaatgac acataacact gcatagaaat aatattactc 120  
aatttttaata actataaaac acagtgcac aaacatcaag ataaacaaac ctgagaaaac 180  
tactataacc acagattcaa tactctccac tcatgcagct tcacaatttc tacagcagtt 240  
tcagcaggaa tggtttttca gggagctgaa aatactactt tatctttaac gcaaaaact 298

<210> 776  
 <211> 385  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 776  
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338

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<212> DNA

<213> Homo sapiens

<400> 782

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<211> 2280

<212> DNA

<213> Homo sapiens

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 <213> Homo sapiens

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<210> 795
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<212> DNA
<213> Homo sapiens

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<220>
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<223> n=a,t,g or c

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 <212> DNA  
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<220>  
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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
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aagatagaaa	tctttttcac	ttaaggtttt	cgagtacctt	gtaggaatta	aagaacaata	180
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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

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<210> 801  
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 <212> DNA  
 <213> Homo sapiens

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 acatacagac aactgcagat tatgttagaa tacaagattg ttatttgcta ttaccacaa 180  
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 tttaaatatc attattgcta gccccaaaa gagttgcaaa acatagctaa gtgtatgttt 360  
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<210> 802

<211> 393  
 <212> DNA  
 <213> Homo sapiens

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<210> 803  
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 <213> Homo sapiens

<220>  
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 <223> n=a,t,g or c

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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

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<212> DNA  
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<212> DNA  
<213> Homo sapiens

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<210> 807  
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<212> DNA  
<213> Homo sapiens

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<210> 808  
<211> 468

<212> DNA  
<213> Homo sapiens

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<210> 809  
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<212> DNA  
<213> Homo sapiens

<400> 809  
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 <213> Homo sapiens

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 <211> 2191  
 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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<211> 2038

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

<220>

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<223> n=a,t,g or c

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<212> DNA

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ctctaagaaa agaattgcta cctcttgat ggaggtacaa aagactgacc tcttacatca 360  
aggaacttcc tttcccagag ctccatcatg aatcaagctg aagtcagtct tcttctgaga 420  
gcacattctt actcagtttt tttcctctgt cctacgctgc ttccctcact ccccttctcc 480  
taagagcact ccatcaataa accacttgca cgag 514

<210> 849  
<211> 374  
<212> DNA  
<213> Homo sapiens

<400> 849  
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tgactcccaa cgttcccga atcttctagt ggtctgtgtc aggggtctgg gctggctggg 120  
gttcagtgat gtctactgga ggcagcttcc atgccttctg gggtcctgag tctccatggc 180  
ttgtgggggtc tgggtccccc ctggattagt ggatggccag agtggcatag aactgggct 240  
cagctggaga ggcccccttcc tgggatggag gagggctcagt tgccttctgt ctgaagggtg 300  
aaagctgtgc agctgggcgt aggtcacatc ctggggggct tcagatgcag cagcctcagt 360  
gtccatctgt ctgt 374

<210> 850  
<211> 482  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 850  
gacgctgcag gtgctagcgc tgctgggggc cgcccatgaa agcgcngcan tggegcantc 60  
atgcaaacat agagaattct gggcttccac acaactccag tgctaactca acagagactc 120  
tccaacatgt gccttctgac catacaaatg aaacttccaa cagtactgtg aaaccaccaa 180  
cttcagttgc ctcagactcc agtaatacaa cggtcaccac catgaaacct acagcggcat 240  
ctaatacaac aacaccaggg atgggtctcaa caaatatgac ttctaccacc ttaaagtcta 300  
caccctaaac aacaagtgtt tcacagaaca catctcagat atcaacatcc acaatgaccg 360  
taaccacaaa tagttcagtg acatctgctg cttcatcagt aacaatcaca acaactatgc 420  
attctgaagc aaagaaagga tcaaaatttg atactgggag ctttgttggg ggtattgtat 480  
tt 482

<210> 851  
<211> 415  
<212> DNA  
<213> Homo sapiens

<400> 851  
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 cagttacatt atgatagaaa ctgttggatt ttttaaatat ctaaaacaat ggcccaactga 120  
 agaaaggaac aattaactct ttaattaatt ccttaggata aataccaga aatttaacag 180  
 ctagggcaga cttctaatac aataccgaaa gtccttccaa aaaccaagt gttgccaaact 240  
 tatgtccctt agcattataa cattcttgag ccaatagtgt aaaaatacgc tgacaatttt 300  
 ataggcaaac attactcaag gtatcttact ttccacttat tactaaaggt aattaacccc 360  
 taaatagatg ctctcaaca gtgggactac atcctggtaa acctatcata agttg 415

<210> 852  
 <211> 370  
 <212> DNA  
 <213> Homo sapiens

<400> 852  
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 gtaatgcttc taaggatctc aaagtaaagc gtatcactcc gcgtcacttg cagcttgcaa 120  
 tccgtgggtga tgaagagttg gattctctta tcaaggctac catagctggg ggtgggtgtga 180  
 tcctcacat ccacaaactct ctgattggaa agagggacac cagaaaactg cttagaggga 240  
 tgctttaacc accctcttct cccgtcaatt gtactgtaac tggggcaaag aaataatggg 300  
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 ttgtatgttc 370

<210> 853  
 <211> 316  
 <212> DNA  
 <213> Homo sapiens

<400> 853  
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 aagtactcaa gactgactta cagaccaacc aaccaccttg ctggaaccct tgctagcagg 180  
 cattcttata aaagaaactt tgcagcctcc ttatattgct ggaactcagc tgtgctccag 240  
 actagagcct cttacctat ctatatgttt aattaatttt tctctatatc atgtactctg 300  
 ctttttttgg tacagt 316

<210> 854  
 <211> 313  
 <212> DNA  
 <213> Homo sapiens

<400> 854  
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 tttggggcag agttttcatc ggaggcatgc agagagttag gcttttctag caacttgctt 120  
 tgcagctctt gtgatcttct cggacagttc aacctgcttc agctggatcc tgattgcaga 180  
 ggatgctgtc aggaggaggc acaatttgaa accaaaagct gtatgcagga gctattcttg 240  
 agtttggtga taaattggga aggttcctca gtccagcttt gttaggggtga taaccaactg 300  
 ttcagaggct caa 313

<210> 855  
 <211> 357  
 <212> DNA  
 <213> Homo sapiens

<400> 855  
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 ttttatcact gccatcacag cagggttcct catccagatg aggaaactag acaaatgcta 120  
 gtgtgtttta actagctaaa caaaactaag ttaaatgaac atttaagagt ttccctagcg 180  
 ggccattcct tagcaaaatg ttggaatccc tgttgctaca ttgactaaca ggtcatgatg 240  
 aatggatatg tagacttggc tcatagaacc taatcagatg gttagagggtg ttggcagttt 300  
 aggacctcct gtcataaatg tgtgacaacc ttttgtacct acctattgac ctgcatg 357

<210> 856  
 <211> 264  
 <212> DNA  
 <213> Homo sapiens

<400> 856  
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 gatctgagct aaaggacagt attccagtta ctgaactttc agcaagtgga ccttttgaaa 120  
 gtcattgatct tcttcggaaa gggttttctt gtgtgaaaaa tgaacttttg cctagtcatt 180  
 cccttgaatt atcagaaaaa aatttccagc tcaaccaaga taaatgattt ttcacactga 240  
 gaacattcag ggtctatttg ctgc 264

<210> 857  
 <211> 264  
 <212> DNA  
 <213> Homo sapiens

<400> 857  
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 gtatcagggtg tctctcataa ttcctgcccc ctgtcagtggt actgcagatg tctttttccg 120  
 gcagattttg gctctgactg gatggggtta cggggttatt gctttgcagt atccagttta 180  
 ttgggacctt ctgagttct gtgatggatt cagaaaactt ttagaccatt tacaattgga 240  
 taaagttcac tttttggcct tctt 264

<210> 858  
 <211> 444  
 <212> DNA  
 <213> Homo sapiens

<400> 858  
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 actacataca gtacatccta caggcaaaga gaggtggaag gggaaaaaga agactgtggt 180  
 tgaggtctag taataaataa ataaatacag aagtagagat gatccatatt atagtatatt 240  
 ctaccaccaa tactgcagcc aaaatgtaca aaaaaaatca tttcaaataa ctcaggagga 300  
 tgataatggc tggacttttg taattcacct caaagactgt gggagagcca actcaactca 360  
 ctgtatagtc tgtgcatatg gtggcttgta gcatgtagggt tttttccaaa agaaggaaat 420  
 ataaaatgtt tagattaaga acta 444



<210> 859  
<211> 345  
<212> DNA  
<213> Homo sapiens

<400> 859  
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ttacctaaaa ggcagcgcag tcaggatatt ggtaggtcgg gggcggcttt ggaaaccctt 120  
aagttttacaa gcatgcgcgg acttgagtgc tcattaggtc gccgggcgtc cacgtgcagc 180  
cctggaccct gaaccccggc gtgcgtgggc cgtgggctcc ggggaaagg tccgtgcact 240  
cggggactcc ggtgaagcct gttcagccgt ctgtgtatgt gccatcttga gtctactctg 300  
tcgctcttgt gccctagacc ccgagaaccg tagtttagca aatga 345

<210> 860  
<211> 261  
<212> DNA  
<213> Homo sapiens

<400> 860  
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cctgttggtta tcagcaccag taaggaaaga acgtgcetta acggcagccc caccagagc 120  
ctgctgcgtg gctgctgtga ggctcccat gaatccagc agtcttcttc ctactgggtg 180  
cagttgggtga ggttttctac cctcacagca aagggatcct taactataaa ttcacgggtat 240  
gcagagaaga ggacagaatc t 261

<210> 861  
<211> 445  
<212> DNA  
<213> Homo sapiens

<400> 861  
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tgctaatacga ttttagcaag tcgaggtaaa acacatgcaa cattttctgg caaaagctta 120  
atgtcaaaca atatgtgatc catactgtgt gtcgtccttg ggggtttatt tgactttgtc 180  
acaatgacag ccaacagtga gactgataag cctgtaaaaa taaaaaata agactaatca 240  
aatagacatg gcattttaat ctcaaagtgc aaaatcatct aactgaaaat gacggcattg 300  
aaaaattcca gtggttaaaa atgaatcaaa acttcattac gcaggcagtg gaagtgtgtt 360  
gaaagattta ccaggggtgt caagttagg acactcagaa aggcaccatt ctagccatct 420  
tgattggata acatggtata tactt 445

<210> 862  
<211> 446  
<212> DNA  
<213> Homo sapiens

<400> 862  
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agaatttttg cagttcattg cccaagatga ctcgatggc cacaccggca gctgtaatag 120  
tgaccaggta gatgacaccc ccgcttgagc catcccggct catggccaga gcaatagcgt 180

catgtggtga	agcgccctgca	ctcctcgga	gacatgcctg	gcttatatgc	tgcattccaca	240
taaccataga	taaagggtgct	gccggagcca	ccaatggcaa	aaggctgtcg	agtcagcatt	300
cctcccaggg	ttccatatac	ctgacctcct	tcacgttggg	cccagccagc	taccatgaga	360
tgtgcagaca	agtcctctcg	attatttata	gctgatattt	ctcaccacat	ttgcagcagc	420
caaaacaagt	ggagggttcct	ccagtt				446

<210> 863  
 <211> 318  
 <212> DNA  
 <213> Homo sapiens

<400>	863					
tttgacaaaa	gcgtgcattt	aatttgatgc	tttgcagaga	tacatgacca	aagttgtatg	60
catggcttgt	cttttgggat	gggtccagct	gtttatttta	aaagaaaaaa	attaaaatag	120
agccaacaaa	tgcaattaag	aaaaaaaaag	tattgagaca	caaggggacc	tacatgttct	180
ggtctaagaa	gcatgcaagt	attacaaagc	attccagata	cagtatgaca	gaggaacagt	240
gaacaagcat	tggaacgatg	ctctttcttt	cagaaacggg	aagtctaaca	gttatgtttt	300
cacaatggta	gtgattaa					318

<210> 864  
 <211> 232  
 <212> DNA  
 <213> Homo sapiens

<400>	864					
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attttgaaaa	tatgaaaaat	aaatcacatc	tccccaaaat	catctaagag	acatattttac	120
acaagtcttg	accatgctaa	aaaattcatg	aattgtgatg	gtgtataaag	catttggttac	180
atgatgatac	ttgctttcca	gaagctggca	tttgcataat	ataaaacggt	aa	232

<210> 865  
 <211> 422  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400>	865					
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aagggantnc	tttgccctagt	cntccgactn	tgnttnatct	tcattcttgac	taatcnggaa	120
gtaacnaagt	cgtaggtctc	cttgtcagat	gcaancantc	gaagccaatc	acgaagattg	180
ttctttctta	ggtattttct	ggtaagggtat	ttcaaatacc	ttttagagaa	ctgtttctca	240
gaaacaactg	tgattttatt	cttgaagcgt	tcaatgtgaa	caacattccc	gagatttcca	300
gttttgccat	tgactttaac	cttctcccgt	agaaattgct	caaaatttcc	agaatcaaaa	360
attccatctt	ctactggatg	agtaagggtc	aaattaaacc	tccaggttga	cctcttgggc	420
tt						422

<210> 866  
 <211> 607  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 866  
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 gatgaaacgg aagatgcgcg aggatgtgat ctctccata cggaactttc tcatctacgt 120  
 ggccctcctg cgagtcactc catttatctt aaagaaattg gacagcatat gaagacagga 180  
 catcacatat gaatgcacga tatgaagagc ctggttacag ttctgactcc tctctgcaag 240  
 tgaataggcc cagaaagggtg taagagactc tttgaatgga cataaaattc tgcttgtaa 300  
 gaacaagttt ggctctggta actgaccttc aaagctaaaa tataaaacta tttgggaagt 360  
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 tactgggtata attgtaaata atgtcaaact ccgttttcta gcaagtatta agggagctgt 480  
 gtctgaaatg gcaactgtctt gtcagtcatt tctgtttacc ttntcttctg ccagagtgtg 540  
 tttgtgaaga gtctcttata tgatgttttg tggaaatcag cacacancac atgacattaa 600  
 gcacagg 607

<210> 867  
 <211> 237  
 <212> DNA  
 <213> Homo sapiens

<400> 867  
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 aattatacat caggattgtt aggaatacca attatttttac aactgccact acgtgtttct 120  
 tcttctctga cacaagtggc acagatccag gottgctgtg ttttaatacga ttcacttctt 180  
 ttcgtcgacg agcttctttc atgatgcgct gttcctgaat ctggctatag atagatt 237

<210> 868  
 <211> 462  
 <212> DNA  
 <213> Homo sapiens

<400> 868  
 tttttttttt ttttggtttt ctagatccat gtttattttc agttcaaaga caaagtagaa 60  
 aacttgagag tggaaaatgt taccttttag ttcacactcc taatccctta gtccccataa 120  
 aataaacatt ctaaagtgtg agcagtagaa ataattgaaa ctccacagaa acagaaataa 180  
 attagtttct ttcagtcttg gtggagggtcc ttttgccgaa caccatactc cactgtgaac 240  
 agaattcatc ttgaacgaag aagaaatctt tggcctatth caccacgtct ccagcattgc 300  
 ataacagaca tttttcaaata tcagtttctt ctccaactgc agcaaaaagg caaagagtag 360  
 tctgtttcag gagtctgcat cgggtcctgt gagagccttg gtccacttag aacaagcctt 420  
 taacttgggt ctggtttcgg tatccagatc tatggtcata aa 462

<210> 869  
 <211> 624

<212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 869  
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 tgggagtttt agtagcttga ggcaagggtg aggggcaaga agtccttggg gaagctgctg 180  
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 gccgcagccg ctgtgggcag ggggtgtggc aggagctccc agcactggag acccacggac 360  
 tcaacccagt tacctcacat ggggcctttt ctgagcaagg tctcgaaagc gcaggccgcc 420  
 ctggctgagc agcaccgcc tttccagct gcactcgccc tgtggacagc cccgacacac 480  
 cactttcctg aggctgtgcg tcaactcagat tgtccgtttg ctatgccgaa tgcagccaaa 540  
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 aacactgaga naaaaaaaaa aagg 624

<210> 870  
 <211> 425  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 870  
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 aggaacgctg ttgacatgcc agggctccgt ctacactgga agcagctata cagctgtgac 180  
 cacatcgagc ttancagtc acacttctgg aactgtccgt tcagtccatc ccatttctgg 240  
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 catcacggag caaggacggc gtgtgactgg ccaccttctt ggccagcagc agggccagca 360  
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 gcagt 425

<210> 871  
 <211> 452  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 871

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cccaggcata	tgcgttgag	cctgggcaac	gtggcgaaac	tcctctacca	aaaaatacaa	300
aaagtagccg	ggcatagtga	catacacctg	agcccaggag	gttaagccta	cattgagccg	360
tgattgtacc	agtgtactct	agccagggtg	acagagtaag	accctatctc	aaanaagaa	420
gtgccataaa	aaagaaaagg	ctctagcctt	ta			452

<210> 872  
 <211> 491  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

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cctggagtgg	tgggtctcat	ctttcccatc	tcgcctgaga	gcggctgagg	gctgcctcac	180
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<210> 873  
 <211> 428  
 <212> DNA  
 <213> Homo sapiens

<400> 873						
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tgtatgcaaa	gtttttgttg	aaagctgtgc	tcagaggagg	tgagaggaga	ggaaggagaa	180
aactgcatca	taactttaca	gaattgaatc	tagagtcttc	cccgaagaagc	ccagaaactt	240
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tcagtttgtg	cccatgaata	atacacgacc	tgttatttcc	atgactgctt	tactgtattt	360
ttaaggtcaa	tatactgtac	atttgataat	aaaataatat	tctcccaaaa	aaaaaaaaaa	420
aaaaaaaaa						428

<210> 874  
 <211> 391  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> misc\_feature  
<223> n=a,t,g or c

<400> 874  
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gccccaggtg aagggtggtcc cactagcagg aagattagga ggcagcagct atgcagaagc 240  
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tccccaaagga cctcatagga gttcaggacc t 391

<210> 875  
<211> 418  
<212> DNA  
<213> Homo sapiens

<400> 875  
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atggcaaatac tacattaaac taagttgaat acaaagtctt agtgaagaag gcctgggtgg 120  
ctcgtttaca aaaatggcca gtgtcatatt tgggcttaaa atttcaagaa gggcacttca 180  
aatggctttg catttgcatg tttcagtgct agagcgtagg aatagaccct ggcgtccact 240  
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gaaatgactt ccacaaaactc tccatccctt ggctttggct tcggccttgc gttttcggca 360  
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<210> 876  
<211> 432  
<212> DNA  
<213> Homo sapiens

<400> 876  
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tgtttcagca ttgagtttaa gtctcctgga gcacagaccg acagtatcca ttctcttccc 120  
ttcccttacc aagcgaaccc ctgaattcta gctgaatata ttggctatac agtctccct 180  
caagctgaac tgtagctgtg ggaatcagtt ctgggtccaca ggaattaacg gaagaagtgt 240  
atacaatttt tgagctatgc tctttagaag agtgtggagg ggtgtctttc ttcccttcc 300  
cctgtgatgt gatggctgga tggagctgga atggccattt tgcacatga ggaatctgat 360  
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cagccagatg ga 432

<210> 877  
<211> 347  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 877  
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gacatggaga acatcacctg ttactagtth agtaataata atattttgta tattaataat 180  
gctgtttgtt cagcattttt cggtcatttg attttgcatt ttgcacnttc ctcccaggat 240  
atthtttttg tcaaaatatg aagtattggg gcagtttgag ggtgttttg tttttgattc 300  
cctgggtttt ttgttttttg tttgggggat ttttgggtga tgtatgt 347

<210> 878  
<211> 444  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 878  
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agtgtctgag tattgcatcc tggatataat tccctgatat atggtaaagc ataaaagaga 180  
cctattttctt caggagagta gctgacccac ctccaggcca tgactgctct tctctttccc 240  
cacagcctta gtactttttg ccaaaaggcc cagatttgag taaaggggaa cgcctgagc 300  
gtaaggatcc gggcataagg gctgcagtct gttgagcttt ggcaggttgg tgttcgggga 360  
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tccnggttgg gtaccaaggc gcta 444

<210> 879  
<211> 454  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 879  
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canggtgnata agctcctgag aggggacagg tctgcgggtc gtggattcac tggactggat 180  
gggacatgat ccagaactcc gctccgtttg gcttcccaag gatccacca actcattcta 240  
atcagtgatc actgaggaaa tgcattgtat tcctattcac tatttcaaag atcaggccta 300  
cctcattggc atattaagaa agttttctca agtatattta gtgtttatca ttttactata 360  
gttcttcaaa tgtctggaca ttcactttt cctacctct aaattccntt ccttttnaca 420  
ttaatctttt cntgattgnc ttttnaatag aaaa 454

<210> 880  
<211> 463

<212> DNA

<213> Homo sapiens

<400> 880

tttttcaagt	ttagaatacc	tggtttattg	ggaaaacttc	ataatgaaaa	ctacaattag	60
ctttttccac	aacttacaaa	ataataatct	gatattttaa	atgaattggg	tttcattatg	120
taagtcgaaa	tggtataaaa	tcataatgac	ctatccgatg	catcatatat	atgctattca	180
gagaaactca	aatccccgaa	ttctcctgtg	gcatgtttta	tatcagacat	ttaaaatctg	240
tttaccaaga	aagaccagga	ttttaactat	atgtagggtt	ctgcttacag	ttgcaaacta	300
tcagaagcct	gtctatatga	tagagccag	ataaacctga	gatttagaaa	agcaagtcac	360
ttattctcct	gaggctgttt	tagtggcact	tttgtgacaa	gaatgaccct	cctaattgctt	420
tactacacaa	cttaaccaga	tctatcagtc	atgataaatt	aga		463

<210> 881

<211> 549

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> n=a,t,g or c

<400> 881

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agaaaatgtg	tccaactgca	tccagttgaa	aacttcagtt	attaagggtg	ttaagaatca	180
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tctgtcctca	atagtccgat	gccatgaaca	tatagaaatc	cttacagtaa	atggagaatt	300
actctttttt	aagacaaaaga	gaagggcctt	tttatccaac	cctaagatta	cttcacaaat	360
atccttttat	cctgccacac	cagcagggtg	ataaaggagc	catcaaattt	gtactcagtg	420
gagcaaatat	catgtgtcca	ggcttaactt	ctcctggagc	taagctttac	cctgctgcag	480
tagataccat	tgttgctatc	atggcagaag	gaaacagcat	gctcnatgtg	ttggagtcac	540
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<210> 882

<211> 596

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> n=a,t,g or c

<400> 882

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actcggaagg	tggacttcat	gttgatttag	ctcaaattat	tgaagcctgt	gatgtgtgtc	180
tgaaggagga	tgataaagat	gttgaaagtg	tgatgaacag	tgtgggtatc	ctactcttga	240
tcctggaacc	agacaagcaa	gaagctttga	ttgaaagcct	atgtgaaaag	ctgggtcaaat	300
ttccgcgaag	gtgaacgccc	gtctctgaga	ctgcagttgt	taagcaacct	tttccacggg	360



atggataaga atactcctgg taagatacac agtgtattgc agccttatta aagtggcagc	420
atcttgtggg gccatccagt acatcccaac tgagctggat caagttagaa aatggatttc	480
tgactggaat ctccaccactg aaaaaaagca cacccttcta agactacttt atgangcact	540
tgtggattgt aagaagagtg atgctgcttc caaagtcatg gtggaattgc tccgaa	596

<210> 883  
 <211> 282  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 883	
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ctttgcctag tcctccgact cngattcatt ttcattctga ctaattctgga agtaacgaag	180
ttcgtaggtc tccttgtagc atgcaaccac tcgaagccaa tcacgaagat tgttcttctt	240
aaggatTTct ttggttaaggt atttcaaata ctttttagag aa	282

<210> 884  
 <211> 282  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 884	
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ctttgcctag tcctccgact cngattcatt ttcattctga ctaattctgga agtaacgaag	180
ttcgtaggtc tccttgtagc atgcaaccac tcgaagccaa tcacgaagat tgttcttctt	240
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<210> 885  
 <211> 512  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 885	
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acaaatacag	agacgagtca	tttctcaatg	cagcttagag	ggtgagaaca	ggatgctagg	240
tttttaaatc	ttccaaatac	aggcagtcct	caacgtacag	acatacagga	cacctcccaa	300
atgtaaacga	cagccacaca	gcagggcttg	catgcgagg	aactcttctt	ctcccagtga	360
gcagactaag	cactctgaat	cccacccac	tgcttcgag	agggaaaaga	aggcaggaca	420
gatgctagaa	gagtaatgtc	aggggctcca	tcacagctgc	ccaggggctt	ctgctgtagt	480
tcataattttc	ctcattccca	tctctgggtt	cn			512

<210> 886  
 <211> 391  
 <212> DNA  
 <213> Homo sapiens

<400> 886	
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aaacaaaaga	gaaggatgat
agggcacaca	gttccaacac
actggcctcc	ctgtgtctat
ccctatggaa	acccattcac
cattgggtggg	gggctccctg
tcctctgttg	ggtcagagac
	gaaacgggct
	a
	60
	120
	180
	240
	300
	360
	391

<210> 887  
 <211> 260  
 <212> DNA  
 <213> Homo sapiens

<400> 887	
cttaccttgg	gtgaactaac
tatcccatgg	gttatctgta
catcttagtg	ccttttatctg
aacactttca	ggaccttcct
ataaatattt	gcatataatg
	60
	120
	180
	240
	260

<210> 888  
 <211> 380  
 <212> DNA  
 <213> Homo sapiens

<400> 888	
gaacacttga	gtgtcagacc
ccacaggacc	agcatttggg
aggacctgta	tactgtgtat
atTTTTaaac	agttgaactg
ctcttagtta	tttctggggg
tgtgaacttt	tatgttagga
atttactttg	aattgtaaat
	60
	120
	180
	240
	300
	360
	380

<210> 889

<211> 423  
 <212> DNA  
 <213> Homo sapiens

<400> 889  
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 ctgcaatcgt ctctgaagtc agtgaaatta agaaaaaagt cctaattctc ttgaagggtca 120  
 ttttttcctc ttaggatatg cagatgcaac cgttgctgca gtctgtgtag aactgccttt 180  
 tatttccac gaccttgacg ttcttttta acactttctt ctctctcttg gcgtttctca 240  
 tagtgtgaga agtcatcaaa aatggaagtgt gtgtgcttgt agctggctat aattttcaac 300  
 acctgcttag ccttttccag aggcacttcc tgagtgtccc tagagttggc cactgggtta 360  
 ttctcgttgt tctctaggcg aatgtgtcgc agttggctat tgggaacgct cttcacaaaa 420  
 atc 423

<210> 890  
 <211> 247  
 <212> DNA  
 <213> Homo sapiens

<400> 890  
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 aatcagagtc tctactgggc aagtagaaaa atagaaaagt ttactacttt gaaaaggaaa 120  
 ctatgacaaa caagtatata ttcaggaaag ggactcctag aacttgagca acaaaaaaga 180  
 gttcaacctc ggcacagtgg agtctgcagt gtctccgcaa caacagaaat gaacttgtgt 240  
 tcctcac 247

<210> 891  
 <211> 460  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 891  
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 tgttacggcg tctggagata aaaccattcg catctgggat gtgaggacta caaatgcat 180  
 tgccactgtg aacactaaag gggagaacat taatatctgc tggagtcctg atgggcagac 240  
 cattgtctgt ggcaacaagg atgatgtggg gacctttatt gatgccaaga cacaccgttc 300  
 caaagcagaa gagcagttca agttccgagg tcaacgaaat ctcttggaa ccatgaccat 360  
 aatatgttcc tctgaccaaa atggcaatgg ttgtatcaca tctcagcta ccagaactga 420  
 agcctgtgca gtccatcaac gccatcctt ccaactgcan 460

<210> 892  
 <211> 414  
 <212> DNA  
 <213> Homo sapiens



<400> 896  
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 atttgcctgat atttactgag tgcttgcaat gtatcagagt cattaaataa gatgcaactt 180  
 ctactgtgaa aactggaatc ttcattagga cacagactta gaaaaggccc agtttcaagg 240  
 attctgactt gcacagact 259

<210> 897  
 <211> 308  
 <212> DNA  
 <213> Homo sapiens

<400> 897  
 aatttccaga gattatttct gtactgagaa tccctggaact actatgctag gaaattttaa 60  
 gctgcatggt ctgtcttggt ttcatttaaat tattgtgaat acctagaatc tttcttggtc 120  
 ctgatttctc ttgcttaatc cagtctttat ctctaactgc ccctatttga tcaccatgta 180  
 ctaggagctc tgatagccag ctccagctcct aatccttgag gcaccattct ttttctattt 240  
 gaacttcagt tctgtcctcg attcccgact agatatttct ggccctctgg tctaagaatt 300  
 ctctggct 308

<210> 898  
 <211> 466  
 <212> DNA  
 <213> Homo sapiens

<400> 898  
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 gagacggagt ttctgcatgt tggccaggcc catttgagat ctttgaagat atcctcaacg 120  
 tgaggctctt ctgccatgaa ggtgaagatt aagtgcctga acggcgtggc cacttggtc 180  
 ttggtggcca acgatgagaa ctgtggcatc tgcaggatgg catttaacgg atgctgccct 240  
 gactgcaagg tgcccgccga cgactgcccgc ctggtgtggg gccagtgtc cactgtctc 300  
 cacatgcatt gcactctcaa gtggctgcac gcacagcagg tgcagcagca cttccccatg 360  
 tgccgccagg aatggaagtt caaggagtga ggcccgacct ggctctcgct ggaggggcat 420  
 cctgagactc ctctctcatg ctggcgccga ttgctgctgg ggacag 466

<210> 899  
 <211> 364  
 <212> DNA  
 <213> Homo sapiens

<400> 899  
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 cccccgggca cagccacgac acacacagag cacaaagggg aaagcatggg gcagtacagg 120  
 gtgctcaggg aggtcataca gcatctgccc agtccagacc ctaccgctcc cctgccccag 180  
 gaggtccttt aagagcagcg tccagatgca gctcggacat tggggaccct gcctctccct 240  
 ccccagactg gagaacagct ttgggttgct aacactcccc ctccagccag gccagtcaca 300  
 gacgacatct cagcagccag gagaaggccc actaggtccg gggccagcgc agtcccagca 360  
 gctc 364

<210> 900  
<211> 376  
<212> DNA  
<213> Homo sapiens

<400> 900  
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ggtgatcata agagaacatt ttacaaatta caaatgggaa aagtacaggg aaaagtagag 120  
acaaatgggt taaataacaa ggtaaccatt tgtaatgagt ctgttttagaa taaaatagtt 180  
cttcacaaaa gttagacaag gccatgagta agtatatcac tgtataaaaa atatcagtga 240  
cgtcaaaaata tacctgtacc aaaaagtaga acagcaatgg tagtgcattc aaatgtgtcc 300  
taaattaaat tacagcacat acagtttcag tgttccacaa tacaaccatt gctctgaggc 360  
agcaatctgt gagact 376

<210> 901  
<211> 397  
<212> DNA  
<213> Homo sapiens

<400> 901  
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ttacaagagg catgaaagaa aaaataattc ctttttttaa actctgtcca aagtataaca 120  
tatgaaacca tgccattatc tcttaggaaa caaaagcatt caaaattaat ttggtattaa 180  
agttcaagat tcagactaac ctcaaagtac ggcatgtgca gtgtttaagt gcaagaagta 240  
ttttcattcc aattatttta cagagatgct ggagtgcagt gtgcaatttg aaatattcaa 300  
atcctttaag gtttctgaac taagtgttta aatgaaaact gaaatgctgc atagtttcag 360  
tggctttcaa tttcctgttt gatctcagaa atatatg 397

<210> 902  
<211> 366  
<212> DNA  
<213> Homo sapiens

<400> 902  
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gttttttaaac cagaagattt ctacactaac acacatttat attaatgaca cataaaaaaa 180  
ataaaaaactt tattacaaaa ataagttaca ctgcctcca gtttacagta taaaacaatt 240  
ttatttgcag gaatgcaaaa tgattgtttg ccatgagcat tttgaacata tgacatgtcc 300  
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ataagc 366

<210> 903  
<211> 373  
<212> DNA  
<213> Homo sapiens

<400> 903  
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atggacagtt gtgtcccaa ggatggatga gaatagctac tgaagtcta aagagcaagc 120  
ctaacttaag ccatttgcac aaaggcatta gacaaaaagc tggaagttga aatggtggag 180

tccacttgcc	tggaccagct	taatggttct	tctcctggta	acggttttat	ccatggatga	240
ctttcttggg	taaggcaata	aggcagttcc	tgtcatacct	tttaaaggta	tggagagtcg	300
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ggaatgcagg	cag					373

<210> 904  
 <211> 146  
 <212> DNA  
 <213> Homo sapiens

<400>	904	
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ttaattcaga	caaatacaca	gaacac 146

<210> 905  
 <211> 504  
 <212> DNA  
 <213> Homo sapiens

<400>	905	
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ttcaattggc	aatacttaga	accttactgt agtgacctga ttttaaatac catattatat 180
ttactaagtt	aagagctagt	ttttactctc ttccataatt tcattacatg aatgtaagat 240
gatggctcaa	aaatgacgac	ttatagtttg aatttatgtg tatgcaatat acatatgaga 300
accaaattca	acaagtgaca	tgaatgttac tacatgaaca ttgaattgta ttgcccttgt 360
cagttatttc	ctctgttcaa	taaatactga aggtcacaaa caccttttta cttttcaaga 420
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<210> 906  
 <211> 499  
 <212> DNA  
 <213> Homo sapiens

<400>	906	
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cgcggttgg	gttcgaggaa	gagacattgt tgttcttggg gtggagaaga agtcagtggc 180
caaaactgcag	gatgaaagaa	cagtgcggaa gatctgtgct ttggatgaca acgtctgcat 240
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ccagagccac	cggtgactgt	ggaggaccgg gtcactgtgg agtacatcac ccgctacatc 360
gccagtctga	agcagcgta	tacgcagagc aatgggcgca ggccgtttgg catctctgcc 420
ctcatcgtgg	gtttcgactt	tgatggcact cctaggctct atcagactga cccctcgggc 480
acataccatg	cctggaagg	

<210> 907  
 <211> 551  
 <212> DNA

[illegible]

<223> n=a,  $\bar{t}$ , g or c

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<220>
<221> misc_feature
<223> n=a,t,g or c
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<210> 909
<211> 454
<212> DNA
<213> Homo sapiens
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726



<210> 910  
 <211> 476  
 <212> DNA  
 <213> Homo sapiens

<400> 910  
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 aataaataat ataaggcagt gaaattcaca atctgcagtt aaaatataaa agcagcaatt 120  
 ctatgttcat agtcttgcaa atgttttcca actacttttg ataactaaga aatattatat 180  
 tctgaaaaaa gttcatacta aatatacaac acaaacatgc aattccctct ctgcagaata 240  
 atctgcaatt tggatataat gttagtgtgt ctaaaacaag gaggtttaag gcaatatgga 300  
 actgtatccc gttgatgcac taacttcac tacatggcct aaggtttgtg gttgttaaag 360  
 agatgtatac gagcattcta tgccccggcg tataacagag atagaagagg aagataagta 420  
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<210> 911  
 <211> 498  
 <212> DNA  
 <213> Homo sapiens

<400> 911  
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 cacagaaaag gaggtgccct cccgaggtcg ggactgagac ctctctcgctg gagaaggtgt 180  
 gggaggcccc tgagggtgaa gttccccggg ttgctcgagc cagagtctgc acagtcacag 240  
 ggcaagcaga aaattctttc gagaggggtg gcgctcacag ggaatcggga agcagagccc 300  
 acctgcctac acctgaaagg ccacagccag tgetgggacc tctctgaggt ctgcagactc 360  
 caggcagaca ctctggcag ctgtgcagca ggagcaggaa ggaaacgaca tgaaagcccc 420  
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<210> 912  
 <211> 411  
 <212> DNA  
 <213> Homo sapiens

<400> 912  
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 catggaacat agtatttgca atatgcaa atggagacctaa aggcctcatga cgggaacaga 180  
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 tggcaacaag ctaggtcagt agtttacgaa agtggctatc tatacagtgc ctgagtttgg 300  
 gttctgggcc tggatcatgt aagaaaggca gcaaagtctg ggtgccatga atcacacctg 360  
 caatcccagc actttggaat tctgtggtga gaggatctct taaagctatg g 411

<210> 913  
 <211> 269  
 <212> DNA  
 <213> Homo sapiens

400> 913  
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 actcattttac cccggggacag gagaggctct tctcgtgtag tgggtgtgca gaccttatgc 180  
 atcacgggca tgagaagacg tccccctgct gccacctgct cttgtccacg gtgagcttgc 240  
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<210> 914  
 <211> 318  
 <212> DNA  
 <213> Homo sapiens

<400> 914  
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 atttgaataa caaatttttag attctaagta ggccataact tctttgcaa acaattgatt 240  
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<210> 915  
 <211> 455  
 <212> DNA  
 <213> Homo sapiens

<400> 915  
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 ctatataaga agctccacgt agtgcaaatc gacatctggg aggctgctcg cccccaggca 180  
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 ggaataacat tctgagccct cgatggcagt atttc 455

<210> 916  
 <211> 489  
 <212> DNA  
 <213> Homo sapiens

<400> 916  
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 gcttctgtct aaaaacgggg atttgctggc gtatttcagc cagcttcttc aggtctatgt 180  
 ctgaatacac gattgcttct tctgtgccag ctttggctag aacctcccc caagggttca 240  
 ccacggtgct gtgtccccag gcaacatagg aggctttgtc atccccggca ggagaggctg 300  
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 tccagtggtc agattaaaag ctcttgata taccaacagc tggcagcctc tctgtgcgta 420  
 gatttgtgca agctctgcaa accgcatgtc gtagcagatg cccagacca ctctgcagta 480  
 agctgtttc 489

<210> 917  
<211> 340  
<212> DNA  
<213> Homo sapiens

<400> 917  
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 tttctttttt ttcccccaa cattgttttt gtggccttga attttaagac aaatattcta 180  
 cacggcatat tgcacaggat ggatggcaaa aaaaagttta aaaacaaaaa cccttaacgg 240  
 aactgcctta aaaaggcaga cgtcctagt cctgtcatgt tatattaaac atacatacac 300  
 acaatctttt tgcttattat aatacagact taaatgtaca 340

<210> 918  
<211> 418  
<212> DNA  
<213> Homo sapiens

<400> 918  
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 agaaccattt acactatggt gacagtagta ctgctgcagg cagacagcgg aagaataaat 180  
 aatagtgcct caagaagagt agtgattgag aggataggta aagagggcgc ctcatcgtgg 240  
 aagctagagc aggaacacct cccagtagt gacatgtgca aagttccaga tctccacgac 300  
 aaagacagct caacccactg gaacaaacag actcccaatg tggctggcaa ctgcgggggt 360  
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<210> 919  
<211> 487  
<212> DNA  
<213> Homo sapiens

<400> 919  
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<210> 920  
<211> 439  
<212> DNA  
<213> Homo sapiens

<400> 920  
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cataatctaa	tctaagcata	tctgaataca	gtattcagag	atagatacag	tagagattcc	180
ccagactttt	tcgctctttg	taaaacctgt	ttgttttaggt	tttgcgaggt	aaactcaaca	240
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cagaaggttt	attattttta	agcacattaa	aaacaaaaaa	ctatttttta	aatcctgcta	360
gattttataa	tggattttgt	aataaaaaat	accaggggtt	ctcagaatgg	aataaatatc	420
ccttttaata	ggtatatat					439

<210> 921  
 <211> 383  
 <212> DNA  
 <213> Homo sapiens

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aaatgttctt	agttgtactc taatttcact aactgccaaa aggttttcca gaataatctc 360
agttgcttca	ttccttttaa gat 383

<210> 922  
 <211> 411  
 <212> DNA  
 <213> Homo sapiens

<400> 922	
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caaacaattg	ttttctaatt cgcttaagac ataacactct atcaaaaaat attttaacaa 180
caccaataaa	tattaggcat gtatgtccat taaaaacat taaagagtcc tgtggcaatc 240
cttaaaacaa	tgaaaaactt ttgagttcaa aattgctcag atattttgta ttcaaattatt 300
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<210> 923  
 <211> 362  
 <212> DNA  
 <213> Homo sapiens

<400> 923	
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cttagaagaa	tcacttactc ccacaatctg tccagacaca ttagtctaag gacaagttta 180
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gtcctgttga	tgggatgttt ccccagttc tttctattga tgcgttcatt ctcttgacct 300
tggtagagac	agttctttct ttccacagag cagattttct tttgtcatcc accattttaca 360
at	

<210> 924  
<211> 336  
<212> DNA  
<213> Homo sapiens

<400> 924  
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cttggaattt gtttaaaaaa aaaatctaga tttgttttat taggttcaga gtatgtgggg 180  
aattatagaa tccctctttc atcactttgt gtatgtcttt tgtaacata tttgttatgc 240  
cttattctaa aattgagtc taaactggaa tgcctttgaa gacagatgct tctatagagg 300  
ttctttgacc taaatagtgc agcatttgta ttttta 336

<210> 925  
<211> 427  
<212> DNA  
<213> Homo sapiens

<400> 925  
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gttctag 427

<210> 926  
<211> 187  
<212> DNA  
<213> Homo sapiens

<400> 926  
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gccctgcatt gtacagcccc ccaactccct caccacctaa taaaggaata gttaacactc 180  
aaaaaaa 187

<210> 927  
<211> 366  
<212> DNA  
<213> Homo sapiens

<400> 927  
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gaaaaattac acctggcagc tgcgtttaag ccttccccca tcgtgtactg cagagttgag 180  
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366

<210> 928  
<211> 434  
<212> DNA  
<213> Homo sapiens

<400> 928  
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ggcccagctg aaacagcttt tcaagctctc tctcctcgtc aaggatcatg agaggcactc 240  
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gtttgagggg tccc 434

<210> 929  
<211> 323  
<212> DNA  
<213> Homo sapiens

<400> 929  
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attttcagtg tctgtcatat tcgatcaagt gtgtcataga gcttctctgtt tcctctccca 300  
gttattcagg gagaggctgg tgg 323

<210> 930  
<211> 337  
<212> DNA  
<213> Homo sapiens

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agtttaaaaa ctaccgcaat taaaaaaaaa aaatattctc atgccagctg acccccctth 240  
gtccacagct aagatggcag cagaatgcta tgtcactata tacagaaaca agacaacctg 300  
aagctaaatg gatgccccct gcagagtcaa caggtcc 337

<210> 931  
<211> 445  
<212> DNA  
<213> Homo sapiens

<400> 931  
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 <212> DNA  
 <213> Homo sapiens

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		120
		180
		240
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		510

<210> 933  
 <211> 289  
 <212> DNA  
 <213> Homo sapiens

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		120
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		289

<210> 934  
 <211> 345  
 <212> DNA  
 <213> Homo sapiens

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gggaatgtgc	ccgca	
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		120
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<210> 935

<211> 438  
<212> DNA  
<213> Homo sapiens

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 ctctccagta ggggtcaacta taagcaaagt gtcataaac acagcaaagg aagttgcaac 360  
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<210> 936  
<211> 446  
<212> DNA  
<213> Homo sapiens

<400> 936  
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 caccatgccc acgtctcacc ggctggcctg cttccgggac gacgtgggtg ttctgggtcta 180  
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<210> 937  
<211> 427  
<212> DNA  
<213> Homo sapiens

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 ccagcccaca aaataagaag aaccttctct gtcttatgcc aagggtttttg tgtgtactgt 360  
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<210> 938  
<211> 352  
<212> DNA  
<213> Homo sapiens

<400> 938  
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gccacttgag	attttcgctt	ctccaaaaat	gttggtgtac	aaactgggtg	ggggccctgg	240
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<210> 939  
 <211> 369  
 <212> DNA  
 <213> Homo sapiens

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<210> 940  
 <211> 455  
 <212> DNA  
 <213> Homo sapiens

<400> 940		
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 <211> 372  
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<212> DNA  
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<212> DNA  
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<220>  
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 <211> 3213  
 <212> DNA  
 <213> Homo sapiens

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gaggaaaagct	gaaaataaat	atgcaggagg	gaaccccggt	tgcgtgcgcc	caactcccaa	240
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<210> 971  
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 <212> DNA  
 <213> Homo sapiens

<400> 971						
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<210> 972
<211> 328
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<223> n=a,t,g or c

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 <213> Homo sapiens

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 <212> DNA  
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 <212> DNA  
 <213> Homo sapiens

<400> 992

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 <211> 4003  
 <212> DNA  
 <213> Homo sapiens

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tctcagtttt	tatatagatg	gcgagaacct	aagtttcagt	tgattttaca	attgaaatga	3960

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4003

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<211> 330  
<212> DNA  
<213> Homo sapiens

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agggaaaaag gttcccagg ggggtcctct gccactttg ccaccacatt cacattccaa 180  
atgggataat gcctgagggg ccaagagtgg tcaggctgcc ctggggtgaa tgtcaccctg 240  
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ctgtgggtcc ctggcctgta tggcttatac 330

<210> 1015  
<211> 354  
<212> DNA  
<213> Homo sapiens

<400> 1015  
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agcaacatct tccggacacc atctttataa aagtaaaact tctagatcct gaaatgtact 180  
acagtagagt ctatagttta cacttttaac cacagattgg aattcattct cttactccc 240  
ctacttccca catgtggcag ttattacttc aaaattaatg acattcactc atgttatact 300  
accacagatc cttaaataga gtacatactg cataattact aacagagcca gtct 354

<210> 1016  
<211> 478  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 1016  
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taggccttca actccttcat ggtctcgctc atcagcgcct tcagttcctg ggtgacctgg 180  
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cagtcgnggc tccggctctg tctccaccgc ttgctccacc ttggcctggc atcctgccag 360  
gaatgtgacc agcaacgcag cccacagaac cttcatcttc ctgcctgtga ttggccagtc 420  
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<210> 1017  
<211> 497

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

<400> 1017  
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cgaattccat atgtaatagg atgcaagtct aagcgtttca tgtggacata aatgtatcta 360  
aataaaactt tccctagcac tgtggctgac ctcaccctta cttttatact ttagtatgaa 420  
acttgatgag aacttttggg aagtgaagta ntttttttta tatatatata tatataatgt 480  
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<210> 1018  
<211> 422  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n=a,t,g or c

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gccgaggctt aagggtgagt tacccgagan gcaagcagtg ctggggcttt ccctcactca 360  
gccgaggctt aaatggaaga actggttagc attttttttt ttttganggt acatcggggg 420  
ag 422

<210> 1019  
<211> 367  
<212> DNA  
<213> Homo sapiens

<400> 1019  
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gaggaggcaa cactcgacc tggttcttgt acaacaagaa aacatcgctg gggccccgct 180  
gaggctggag tgggggtgga ggctggtctt tggaggatgc cccccacc ccatectctt 240  
gtcaggccct cggggtaccc cagaagcttg gtgggtgagt attccacctg cttacacacc 300  
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tcatgcc 367

<210> 1020  
 <211> 320  
 <212> DNA  
 <213> Homo sapiens

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 ccatcagtat ttccctcaca ttcccttttg ttaagtccca tcttcgcagt ggcagtacag 180  
 gagaaatctc caccgtcacc gcacaatcca ccaggcgcat taccacctga agtgaaggtc 240  
 tcatctcgaa ggtgctgctca gccataaaaa gaaaacatat tacagaaagg aaaaaataagt 300  
 gtgctcttcc caccgcaaa 320

<210> 1021  
 <211> 471  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 1021  
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 agtacttgng caccctntgt tgtcaagaaa gttgggagta acatctgtag gaggttcttt 420  
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<210> 1022  
 <211> 408  
 <212> DNA  
 <213> Homo sapiens

<400> 1022  
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 acagcgtgca tatgctattc ctggaaatac tgaagtgtcc gaatttcatt cctaaaaagt 360  
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<210> 1023  
 <211> 470



<212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 1023  
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 cctcagcctc cctagtagct gggattacag gtgtccacca ccatgcccaa ttaatttttg 180  
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<210> 1024  
 <211> 292  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 1024  
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 gaaaccaaca agcgtgtca cctgtctctc cctcccgtgc tgccccgggg angcaagggtg 180  
 ggcaaggagg gggcaggaag ccccatggc ctcacctcct gagtcccaa tcagggcagg 240  
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<210> 1025  
 <211> 165  
 <212> DNA  
 <213> Homo sapiens

<400> 1025  
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 aaaaaatgat tcagttaaaa caaaacaaaa gtttagatat tttag 165

<210> 1026  
 <211> 252  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> misc\_feature  
<223> n=a,t,g or c

<400> 1026  
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 acctgttcag acaaacaaag atctcgatca ttacattgcc cagctttaag aatcccaaaa 180  
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<210> 1027  
 <211> 439  
 <212> DNA  
 <213> Homo sapiens

<400> 1027  
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 ttgtggaact gggttcagcca gatcttcaact ttcatgaaag cacagggtct gtccttttct 180  
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<210> 1028  
 <211> 413  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

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 ggggggctca gatgaacagc gaacacccaa tcagccaggg gctctgggaa gggaaagctc 360  
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<210> 1029  
 <211> 284  
 <212> DNA  
 <213> Homo sapiens

<400> 1029

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agccaagagc	tcttcccttt	tcccctgtta	atttccagta	taatgtagca	gcacaattat	180
ttcatgtcac	atttaagaag	aacaagaacc	aatttatata	aaggtacaat	tgtatatcct	240
taaacattcc	acataaacac	actgtcaaaa	ctcactggat	atgc		284

<210> 1030  
 <211> 371  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 1030	
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gtttgtttctg	tcateccacc gatgatacac acatcaggca agcagctaatt ttgaacatat 240
gtacagagtc	tatgataaag attttaaagtt accaaaaaga ttcaggctat aacatattaa 300
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 <213> Homo sapiens

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aataatcgtc	atcttcatca gagtccatta cttttcttct gttgaatttc actggtgttg 180
tcttttctgt	ttgttggtt acttttttaa ggatttctat taaaccttgt tctgatacct 240
tctcacttag	gttggtccata tcttgccatc tgtataaggg taattctcta ctgctttagg 300
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<210> 1032  
 <211> 449  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 1032	
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tttatattat	ataaggacag accaaaaatc aacctatcaa agcttcaaaa actttgggaa 120

aggggtgggat	taagtacaag	cacatttggc	ttacagtata	tgaactgatt	tttattaaact	180
gcttttgccc	atataaaatg	ctgatattta	ctggaaacct	agccagcttc	acgattatga	240
ctaaagtacc	agattataat	gccagaatat	aatgtgcagg	caatcgtggg	atgtctctga	300
caaagtgtgt	ctcaaaaata	atattacttt	ttacattaaa	ggaaatttta	atgtttctct	360
gggagttggg	ggctcctnng	cttttcagag	tttgggttaa	tcngtggttg	aattctaggt	420
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ctttttgaaa	gattataactt
gttcaagtct	aatgaagaat
acagggtgaa	a
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ccatgaacaa	atcctttatg
taggtaaaag	gaaagttgaa
tgtctctcatc	gtattgtgta
gaattttgaa	caactgaatat
gaattttgaa	tccttcaagt
ngcgtccnta	aagattncag
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atcctttatg	gagtcgggtg
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gtattgtgta	
caactgaatat	
tccttcaagt	
aagattncag	
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tggtctgatg	taggtaaaag
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gtattgtgta	
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tccttcaagt	
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gtattgtgta	
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tggtctgatg	taggtaaaag
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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 taataagtaa aaattacaac attcttctcc cagcaatgaa caatttcatt tttttaaagt 180  
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<210> 1038  
 <211> 458  
 <212> DNA  
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<220>  
 <221> misc\_feature  
 <223> n=a,t,g or c

<400> 1038  
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<210> 1039  
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<211> 3147

<212> DNA

<213> Homo sapiens

<400> 1042

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<212> DNA

<213> Homo sapiens

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